The Secondary Fan of a Curve of Type (2,2) of $\mathbb{P}^1 \times \mathbb{P}^1$

The computational results listed below prove some of the results in the paper

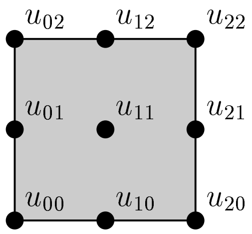
Eric Katz, Hannah Markwig, Thomas Markwig: The j-invariant ... Preprint 2007.

For an explantion of the terms used in the following, for some of the notation, like $c_T(i,j)$ or $\eta_T(i,j)$, and for a thorough explanation of the results we refer to this paper.

If we consider a curve given by the general polynomial

$$f = u_{22}x^2y^2 + u_{21}x^2y + u_{12}xy^2 + u_{20}x^2 + u_{11}xy + u_{02}y^2 + u_{10}x + u_{01}y + u_{00};$$

then the secondary fan associated to f is the by definition the secondary fan of the the following marked polytope $(Q, \mathcal{A})$:



$(Q, \mathcal{A})$

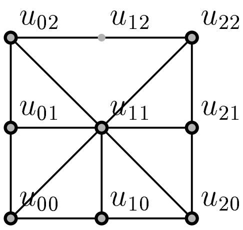
As coordinates on the 9-dimensional real space in which the secondary fan lives we use by abuse of notation

$$u_{11}, u_{20}, u_{10}, u_{00}, u_{21}, u_{01}, u_{22}, u_{12}, u_{02}$$

In what follows we give for each vertex in the secondary fan the corresponding marked subdivision and the inequalities describing the cone. Moreover, we compute the cycle length of a tropical curve dual to the subdivision in terms of the u_{ij}, and we determine the corresponding vertex in the Newton polytope of the regular A-determinant of f to which the cone belongs by computing the coefficients η_{ij}. From these we can compute the generic valuation j-invariant of f provided that the associated tropical curve has a cycle. In particular, we will see that in these cases the cycle length is just the negative of this generic valuation. Note that the regular A-determinant coincides with the discriminant of f, which at the same time is the denominator of the j-invariant of f.

1. Vertex: $(8, 2, 2, 2, 2, 2, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

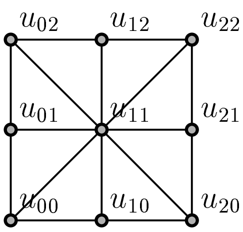
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{21} &< u_{20} + u_{22}
\end{aligned}
$$

2. Vertex: $(8, 2, 2, 2, 2, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

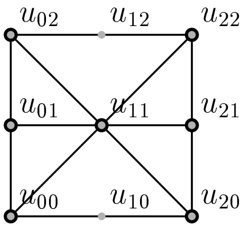
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl}
u_{11} + u_{02} & < & u_{01} + u_{12} \\
2 \cdot u_{12} & < & u_{22} + u_{02} \\
u_{11} + u_{00} & < & u_{10} + u_{01} \\
u_{11} + u_{22} & < & u_{21} + u_{12} \\
2 \cdot u_{21} & < & u_{20} + u_{22} \\
2 \cdot u_{01} & < & u_{00} + u_{02} \\
2 \cdot u_{10} & < & u_{20} + u_{00} \\
u_{11} + u_{20} & < & u_{10} + u_{21}
\end{array}$$

3. Vertex: $(8,3,0,3,2,2,3,0,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

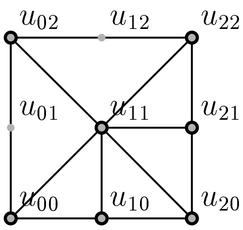
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02}
\end{aligned}$$

4. Vertex: $(8, 2, 2, 3, 2, 0, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

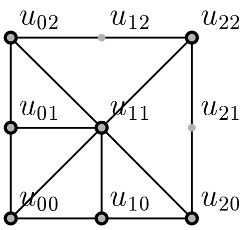
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{00} + u_{02} &< 2 \cdot u_{01} \\ u_{22} + u_{02} &< 2 \cdot u_{12} \\ 2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02} \\ 2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ u_{11} + u_{20} &< u_{10} + u_{21} \end{aligned}$$

5. Vertex: $(8, 3, 2, 2, 0, 2, 4, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

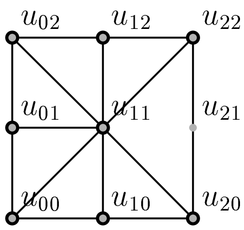
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22}
\end{aligned}$$

6. Vertex: $(8, 3, 2, 2, 0, 2, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

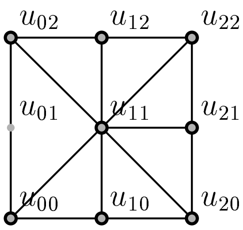
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00}
\end{aligned}$$

7. Vertex: $(8, 2, 2, 3, 2, 0, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

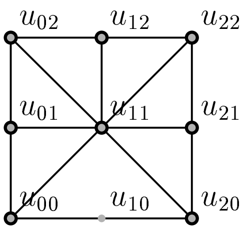
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

8. Vertex: $(8, 3, 0, 3, 2, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

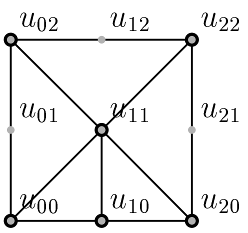
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{22} &< u_{21} + u_{12}
\end{aligned}$$

9. Vertex: $(8, 3, 2, 3, 0, 0, 4, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

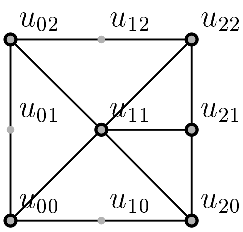
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + u_{22} &< 2 \cdot u_{21} \\ u_{00} + u_{02} &< 2 \cdot u_{01} \\ u_{22} + u_{02} &< 2 \cdot u_{12} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22} \\ 2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \end{aligned}$$

10. Vertex: $(8, 3, 0, 4, 2, 0, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

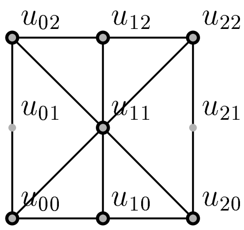
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

11. Vertex: $(8, 3, 2, 3, 0, 0, 3, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

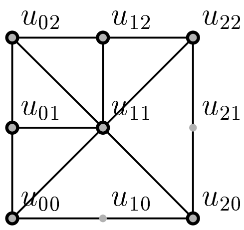
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl}
u_{00} + u_{02} & < & 2 \cdot u_{01} \\
u_{20} + u_{22} & < & 2 \cdot u_{21} \\
2 \cdot u_{12} & < & u_{22} + u_{02} \\
2 \cdot u_{11} + u_{02} & < & u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{10} & < & u_{20} + u_{00} \\
2 \cdot u_{11} + u_{22} & < & u_{20} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{20} & < & 2 \cdot u_{10} + u_{22} \\
2 \cdot u_{11} + u_{00} & < & 2 \cdot u_{10} + u_{02}
\end{array}$$

12. Vertex: $(8,4,0,3,0,2,3,2,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

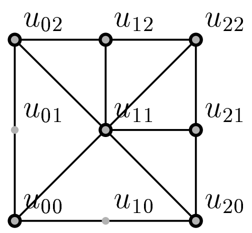
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{11} + u_{02} &< u_{01} + u_{12} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ u_{20} + u_{22} &< 2 \cdot u_{21} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\ 2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12} \end{aligned}$$

13. Vertex: $(8, 3, 0, 4, 2, 0, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

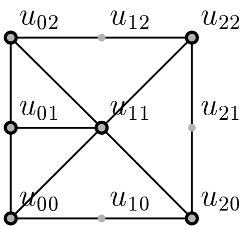
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{array}{rcl}
u_{20} + u_{00} & < & 2 \cdot u_{10} \\
u_{00} + u_{02} & < & 2 \cdot u_{01} \\
2 \cdot u_{12} & < & u_{22} + u_{02} \\
2 \cdot u_{11} + u_{02} & < & u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{20} & < & u_{00} + 2 \cdot u_{21} \\
2 \cdot u_{21} & < & u_{20} + u_{22} \\
u_{11} + u_{22} & < & u_{21} + u_{12}
\end{array}
$$

14. Vertex: $(8, 4, 0, 3, 0, 2, 4, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

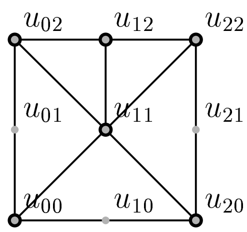
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

15. Vertex: $(8,4,0,4,0,0,3,2,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

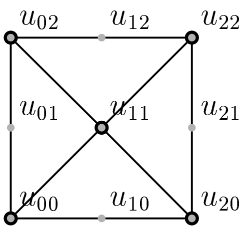
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12}
\end{aligned}$$

16. Vertex: $(8,4,0,4,0,0,4,0,4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $4 \cdot u_{11} - u_{20} - u_{00} - u_{22} - u_{02}$

2	1	0	1
1	0	-4	0
0	1	0	1
$c_T(i,j)$	0	1	2

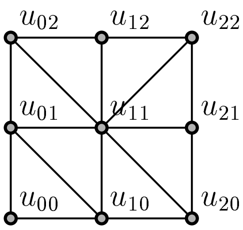
2	1	0	1
1	0	8	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + u_{00} &< 2 \cdot u_{10} \\ u_{20} + u_{22} &< 2 \cdot u_{21} \\ u_{00} + u_{02} &< 2 \cdot u_{01} \\ u_{22} + u_{02} &< 2 \cdot u_{12} \\ 8 \cdot u_{11} &< 4 \cdot u_{00} + 4 \cdot u_{22} \\ 8 \cdot u_{11} &< 4 \cdot u_{20} + 4 \cdot u_{02} \end{aligned}$$

17. Vertex: $(7, 2, 3, 1, 2, 3, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{01} - u_{22} - u_{02}$

2	1	0	1
1	1	-5	0
0	0	1	1
$c_T(i,j)$	0	1	2

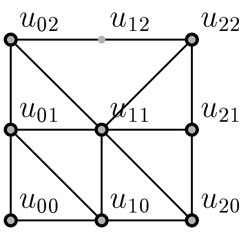
2	1	0	1
1	1	7	0
0	0	1	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}
$$

18. Vertex: $(7, 2, 3, 1, 2, 3, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{01} - u_{22} - u_{02}$

2	1	0	1
1	1	-5	0
0	0	1	1
$c_T(i,j)$	0	1	2

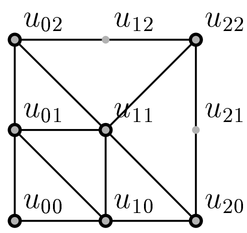
2	1	0	1
1	1	7	0
0	0	1	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{21} &< u_{20} + u_{22}
\end{aligned}$$

19. Vertex: $(7,3,3,1,0,3,4,0,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{01} - u_{22} - u_{02}$

2	1	0	1
1	1	-5	0
0	0	1	1
$c_T(i,j)$	0	1	2

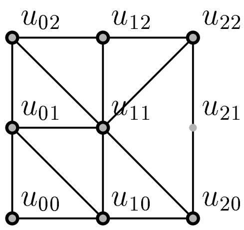
2	1	0	1
1	1	7	0
0	0	1	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

20. Vertex: $(7, 3, 3, 1, 0, 3, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{10} - u_{01} - u_{22} - u_{02}$

2	1	0	1
1	1	-5	0
0	0	1	1
$c_T(i,j)$	0	1	2

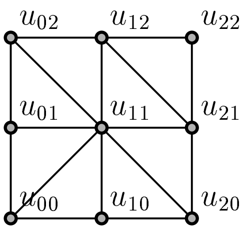
2	1	0	1
1	1	7	0
0	0	1	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12}
\end{aligned}
$$

21. Vertex: $(7, 2, 2, 2, 3, 2, 1, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

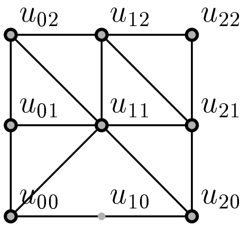
$$\begin{array}{c|ccc} 2 & 1 & 1 & 0 \\ 1 & 0 & -5 & 1 \\ 0 & 1 & 0 & 1 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 1 & 1 & 0 \\ 1 & 0 & 7 & 1 \\ 0 & 1 & 0 & 1 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{21} + u_{12} &< u_{11} + u_{22} \\ u_{11} + u_{02} &< u_{01} + u_{12} \\ u_{11} + u_{00} &< u_{10} + u_{01} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ u_{11} + u_{20} &< u_{10} + u_{21} \\ u_{11} + u_{12} &< u_{21} + u_{02} \\ u_{11} + u_{21} &< u_{20} + u_{12} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \end{aligned}$$

22. Vertex: $(7,3,0,3,3,2,1,3,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

2	1	1	0
1	0	-5	1
0	1	0	1
$c_T(i,j)$	0	1	2

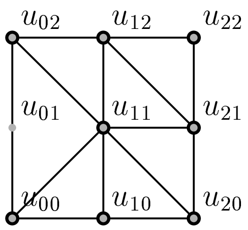
2	1	1	0
1	0	7	1
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \\
u_{11} + u_{21} &< u_{20} + u_{12}
\end{aligned}$$

23. Vertex: $(7, 2, 2, 3, 3, 0, 1, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

2	1	1	0
1	0	-5	1
0	1	0	1
$c_T(i,j)$	0	1	2

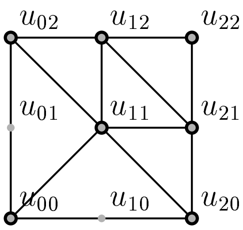
2	1	1	0
1	0	7	1
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

24. Vertex: $(7, 3, 0, 4, 3, 0, 1, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{12} - u_{02}$

2	1	1	0
1	0	-5	1
0	1	0	1
$c_T(i,j)$	0	1	2

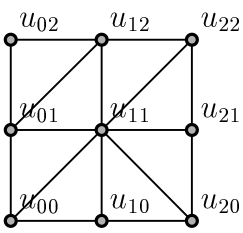
2	1	1	0
1	0	7	1
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{12} &< u_{21} + u_{02}
\end{aligned}$$

25. Vertex: $(7, 2, 2, 2, 2, 3, 2, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{01} - u_{22} - u_{12}$

2	0	1	1
1	1	-5	0
0	1	0	1
$c_T(i,j)$	0	1	2

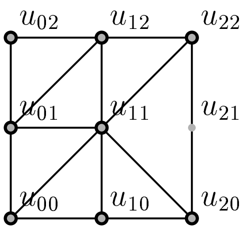
2	0	1	1
1	1	7	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{11} + u_{12} &< u_{01} + u_{22} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{22} &< u_{21} + u_{12}
\end{aligned}$$

26. Vertex: $(7, 3, 2, 2, 0, 3, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{01} - u_{22} - u_{12}$

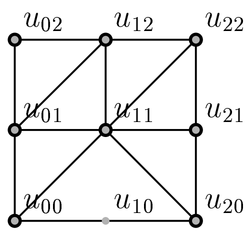
$$\begin{array}{c|ccc} 2 & 0 & 1 & 1 \\ 1 & 1 & -5 & 0 \\ 0 & 1 & 0 & 1 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 1 & 1 \\ 1 & 1 & 7 & 0 \\ 0 & 1 & 0 & 1 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{11} + u_{12} &< u_{01} + u_{22} \\ u_{20} + u_{22} &< 2 \cdot u_{21} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ u_{11} + u_{00} &< u_{10} + u_{01} \\ u_{11} + u_{01} &< u_{00} + u_{12} \\ 2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22} \\ 2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12} \\ u_{01} + u_{12} &< u_{11} + u_{02} \end{aligned}$$

27. Vertex: $(7,3,0,3,2,3,2,3,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{01} - u_{22} - u_{12}$

2	0	1	1
1	1	-5	0
0	1	0	1
$c_T(i,j)$	0	1	2

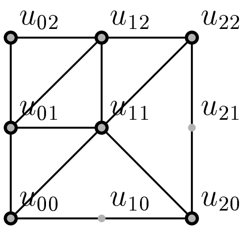
2	0	1	1
1	1	7	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{12} &< u_{01} + u_{22} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

28. Vertex: $(7,4,0,3,0,3,3,3,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{20} - u_{00} - u_{01} - u_{22} - u_{12}$

2	0	1	1
1	1	-5	0
0	1	0	1
$c_T(i,j)$	0	1	2

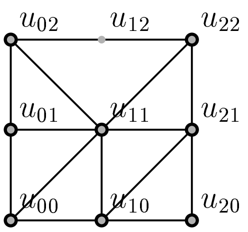
2	0	1	1
1	1	7	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl}
u_{20} + u_{00} & < & 2 \cdot u_{10} \\
u_{20} + u_{22} & < & 2 \cdot u_{21} \\
u_{11} + u_{12} & < & u_{01} + u_{22} \\
u_{11} + u_{01} & < & u_{00} + u_{12} \\
u_{01} + u_{12} & < & u_{11} + u_{02} \\
2 \cdot u_{11} + u_{00} & < & u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{22} & < & u_{20} + 2 \cdot u_{12}
\end{array}$$

29. Vertex: $(7,1,3,2,3,2,3,0,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - u_{21} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - u_{21} - u_{22} - u_{02}$

2	1	0	1
1	0	-5	1
0	1	1	0
$c_T(i,j)$	0	1	2

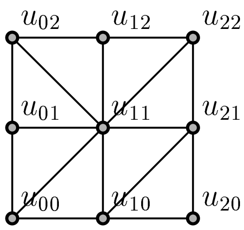
2	1	0	1
1	0	7	1
0	1	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{21} &< u_{10} + u_{22} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

30. Vertex: $(7, 1, 3, 2, 3, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - u_{21} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - u_{21} - u_{22} - u_{02}$

2	1	0	1
1	0	-5	1
0	1	1	0
$c_T(i,j)$	0	1	2

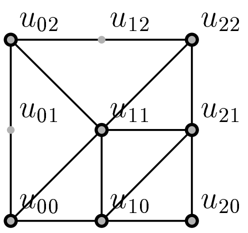
2	1	0	1
1	0	7	1
0	1	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{21} &< u_{10} + u_{22} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{22} &< u_{21} + u_{12}
\end{aligned}$$

31. Vertex: $(7, 1, 3, 3, 3, 0, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - u_{21} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - u_{21} - u_{22} - u_{02}$

2	1	0	1
1	0	-5	1
0	1	1	0
$c_T(i,j)$	0	1	2

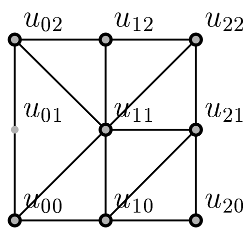
2	1	0	1
1	0	7	1
0	1	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{10} + u_{22} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

32. Vertex: $(7, 1, 3, 3, 3, 0, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $5 \cdot u_{11} - u_{10} - u_{00} - u_{21} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $5 \cdot u_{11} - u_{10} - u_{00} - u_{21} - u_{22} - u_{02}$

2	1	0	1
1	0	-5	1
0	1	1	0
$c_T(i,j)$	0	1	2

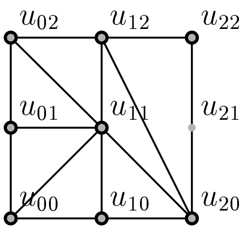
2	1	0	1
1	0	7	1
0	1	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
u_{11} + u_{21} &< u_{10} + u_{22}
\end{aligned}$$

33. Vertex: $(6,4,2,2,0,2,2,4,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

2	1	2	0
1	0	-6	0
0	1	0	2
$c_T(i,j)$	0	1	2

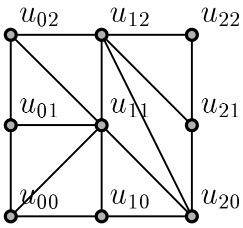
2	1	2	0
1	0	6	0
0	1	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

34. Vertex: $(6, 3, 2, 2, 2, 2, 1, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

2	1	2	0
1	0	-6	0
0	1	0	2
$c_T(i,j)$	0	1	2

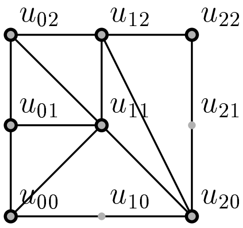
2	1	2	0
1	0	6	0
0	1	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{11} + u_{02} &< u_{01} + u_{12} \\ u_{20} + u_{12} &< u_{11} + u_{21} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ u_{11} + u_{00} &< u_{10} + u_{01} \end{aligned}$$

35. Vertex: $(6, 5, 0, 3, 0, 2, 2, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

2	1	2	0
1	0	-6	0
0	1	0	2
$c_T(i,j)$	0	1	2

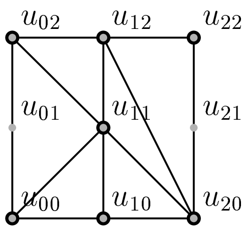
2	1	2	0
1	0	6	0
0	1	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + u_{00} &< 2 \cdot u_{10} \\ u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\ u_{11} + u_{02} &< u_{01} + u_{12} \\ u_{20} + u_{22} &< 2 \cdot u_{21} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \end{aligned}$$

36. Vertex: $(6,4,2,3,0,0,2,4,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

2	1	2	0
1	0	-6	0
0	1	0	2
$c_T(i,j)$	0	1	2

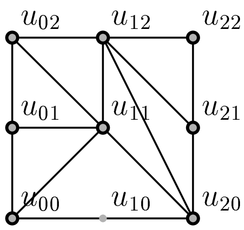
2	1	2	0
1	0	6	0
0	1	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

37. Vertex: $(6, 4, 0, 3, 2, 2, 1, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

2	1	2	0
1	0	-6	0
0	1	0	2
$c_T(i,j)$	0	1	2

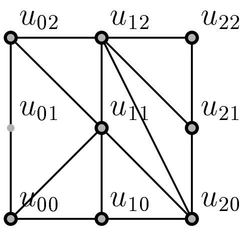
2	1	2	0
1	0	6	0
0	1	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + u_{12} &< u_{11} + u_{21} \\ u_{11} + u_{02} &< u_{01} + u_{12} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \end{aligned}$$

38. Vertex: $(6, 3, 2, 3, 2, 0, 1, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

2	1	2	0
1	0	-6	0
0	1	0	2
$c_T(i,j)$	0	1	2

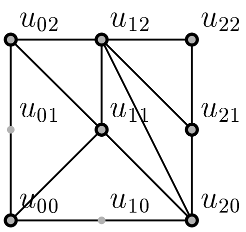
2	1	2	0
1	0	6	0
0	1	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{00} + u_{02} &< 2 \cdot u_{01} \\ u_{20} + u_{12} &< u_{11} + u_{21} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \end{aligned}$$

39. Vertex: $(6, 4, 0, 4, 2, 0, 1, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

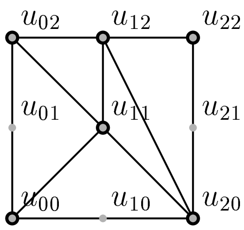
$$\begin{array}{c|ccc} 2 & 1 & 2 & 0 \\ 1 & 0 & -6 & 0 \\ 0 & 1 & 0 & 2 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 1 & 2 & 0 \\ 1 & 0 & 6 & 0 \\ 0 & 1 & 0 & 2 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + u_{12} &< u_{11} + u_{21} \\ u_{00} + u_{02} &< 2 \cdot u_{01} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ 2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02} \end{aligned}$$

40. Vertex: $(6, 5, 0, 4, 0, 0, 2, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - 2 \cdot u_{12} - u_{02}$

2	1	2	0
1	0	-6	0
0	1	0	2
$c_T(i,j)$	0	1	2

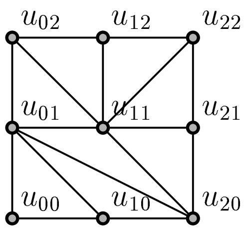
2	1	2	0
1	0	6	0
0	1	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

41. Vertex: $(6,3,2,1,2,4,2,2,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

2	1	0	1
1	2	-6	0
0	0	0	2
$c_T(i,j)$	0	1	2

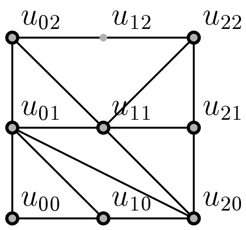
2	1	0	1
1	2	6	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22}
\end{aligned}
$$

42. Vertex: $(6, 3, 2, 1, 2, 4, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

2	1	0	1
1	2	-6	0
0	0	0	2
$c_T(i,j)$	0	1	2

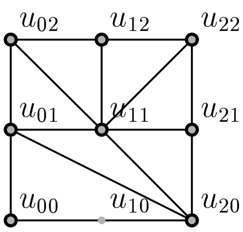
2	1	0	1
1	2	6	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02}
\end{aligned}
$$

43. Vertex: $(6, 4, 0, 2, 2, 4, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

2	1	0	1
1	2	-6	0
0	0	0	2
$c_T(i,j)$	0	1	2

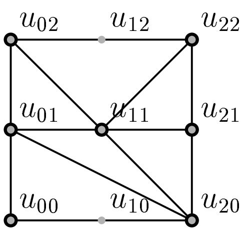
2	1	0	1
1	2	6	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22}
\end{aligned}$$

44. Vertex: $(6,4,0,2,2,4,3,0,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

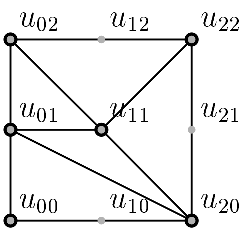
$$
\begin{array}{c|ccc}
2 & 1 & 0 & 1 \\
1 & 2 & -6 & 0 \\
0 & 0 & 0 & 2 \\
\hline
c_T(i,j) & 0 & 1 & 2
\end{array}
\qquad
\begin{array}{c|ccc}
2 & 1 & 0 & 1 \\
1 & 2 & 6 & 0 \\
0 & 0 & 0 & 2 \\
\hline
\eta_T(i,j) & 0 & 1 & 2
\end{array}
$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02}
\end{aligned}
$$

45. Vertex: $(6, 5, 0, 2, 0, 4, 4, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

2	1	0	1
1	2	-6	0
0	0	0	2
$c_T(i,j)$	0	1	2

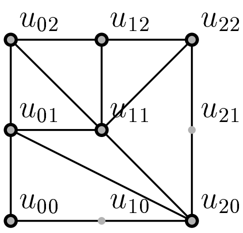
2	1	0	1
1	2	6	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

46. Vertex: $(6, 5, 0, 2, 0, 4, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

2	1	0	1
1	2	-6	0
0	0	0	2
$c_T(i,j)$	0	1	2

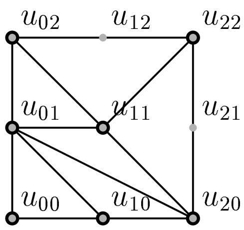
2	1	0	1
1	2	6	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12}
\end{aligned}
$$

47. Vertex: $(6, 4, 2, 1, 0, 4, 4, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

2	1	0	1
1	2	-6	0
0	0	0	2
$c_T(i,j)$	0	1	2

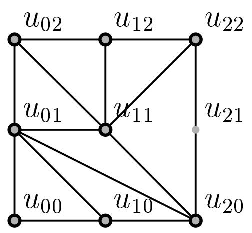
2	1	0	1
1	2	6	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}
$$

48. Vertex: $(6,4,2,1,0,4,3,2,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{01} - u_{22} - u_{02}$

2	1	0	1
1	2	-6	0
0	0	0	2
$c_T(i,j)$	0	1	2

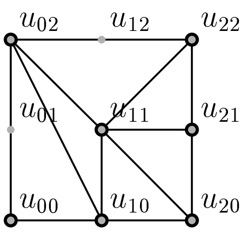
2	1	0	1
1	2	6	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12}
\end{aligned}
$$

49. Vertex: $(6, 2, 4, 2, 2, 0, 3, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

2	2	0	1
1	0	-6	0
0	0	2	1
$c_T(i, j)$	0	1	2

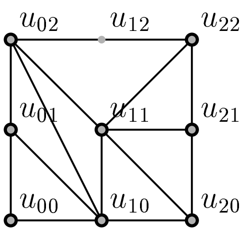
2	2	0	1
1	0	6	0
0	0	2	1
$\eta_T(i, j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

50. Vertex: $(6, 2, 4, 1, 2, 2, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

2	2	0	1
1	0	-6	0
0	0	2	1
$c_T(i,j)$	0	1	2

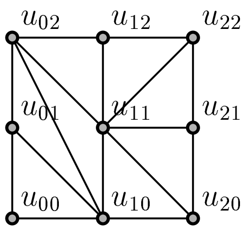
2	2	0	1
1	0	6	0
0	0	2	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{21} &< u_{20} + u_{22}
\end{aligned}$$

51. Vertex: $(6, 2, 4, 1, 2, 2, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

2	2	0	1
1	0	-6	0
0	0	2	1
$c_T(i,j)$	0	1	2

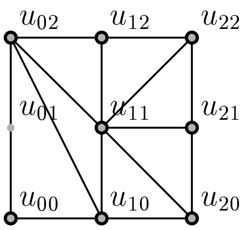
2	2	0	1
1	0	6	0
0	0	2	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22}
\end{aligned}$$

52. **Vertex:** $(6, 2, 4, 2, 2, 0, 2, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

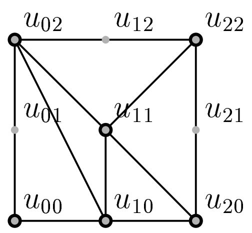
$$\begin{array}{c|ccc} 2 & 2 & 0 & 1 \\ 1 & 0 & -6 & 0 \\ 0 & 0 & 2 & 1 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 2 & 0 & 1 \\ 1 & 0 & 6 & 0 \\ 0 & 0 & 2 & 1 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ u_{00} + u_{02} &< 2 \cdot u_{01} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ u_{11} + u_{22} &< u_{21} + u_{12} \\ u_{11} + u_{20} &< u_{10} + u_{21} \end{aligned}$$

53. Vertex: $(6, 3, 4, 2, 0, 0, 4, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

2	2	0	1
1	0	-6	0
0	0	2	1
$c_T(i,j)$	0	1	2

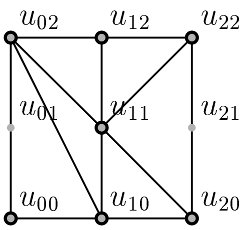
2	2	0	1
1	0	6	0
0	0	2	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

54. Vertex: $(6,3,4,2,0,0,3,2,4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

2	2	0	1
1	0	-6	0
0	0	2	1
$c_T(i,j)$	0	1	2

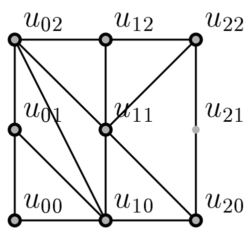
2	2	0	1
1	0	6	0
0	0	2	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22}
\end{aligned}$$

55. Vertex: $(6,3,4,1,0,2,3,2,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

2	2	0	1
1	0	-6	0
0	0	2	1
$c_T(i,j)$	0	1	2

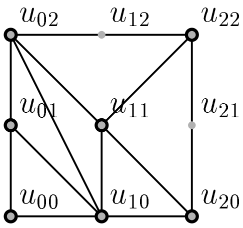
2	2	0	1
1	0	6	0
0	0	2	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22} \\
2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12}
\end{aligned}$$

56. Vertex: $(6, 3, 4, 1, 0, 2, 4, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{22} - 2 \cdot u_{02}$

2	2	0	1
1	0	-6	0
0	0	2	1
$c_T(i,j)$	0	1	2

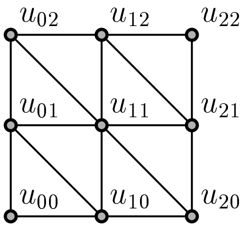
2	2	0	1
1	0	6	0
0	0	2	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

57. Vertex: $(6, 2, 3, 1, 3, 3, 1, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{10} - u_{21} - u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{10} - u_{21} - u_{01} - u_{12} - u_{02}$

2	1	1	0
1	1	-6	1
0	0	1	1
$c_T(i,j)$	0	1	2

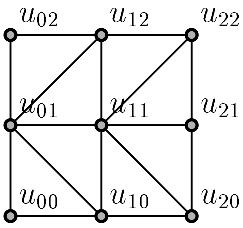
2	1	1	0
1	1	6	1
0	0	1	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12}
\end{aligned}$$

58. Vertex: $(6, 2, 3, 1, 2, 4, 2, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{10} - 2 \cdot u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{10} - 2 \cdot u_{01} - u_{22} - u_{12}$

2	0	1	1
1	2	-6	0
0	0	1	1
$c_T(i,j)$	0	1	2

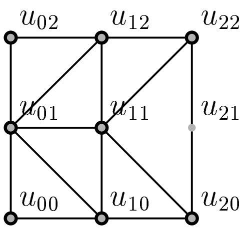
2	0	1	1
1	2	6	0
0	0	1	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{11} + u_{12} &< u_{01} + u_{22} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

59. Vertex: $(6, 3, 3, 1, 0, 4, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{10} - 2 \cdot u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{10} - 2 \cdot u_{01} - u_{22} - u_{12}$

2	0	1	1
1	2	-6	0
0	0	1	1
$c_T(i,j)$	0	1	2

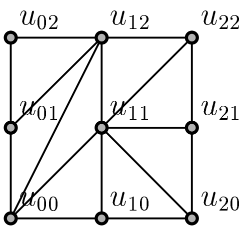
2	0	1	1
1	2	6	0
0	0	1	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{11} + u_{12} &< u_{01} + u_{22} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22}
\end{aligned}$$

60. Vertex: $(6, 2, 2, 3, 2, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-6	0
0	2	0	1
$c_T(i,j)$	0	1	2

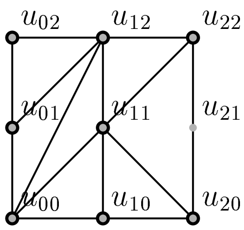
2	0	2	1
1	0	6	0
0	2	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}
$$

61. Vertex: $(6, 3, 2, 3, 0, 2, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-6	0
0	2	0	1
$c_T(i,j)$	0	1	2

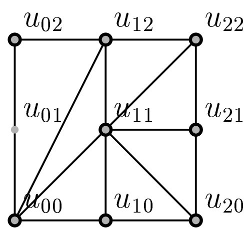
2	0	2	1
1	0	6	0
0	2	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00}
\end{aligned}$$

62. Vertex: $(6, 2, 2, 4, 2, 0, 2, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-6	0
0	2	0	1
$c_T(i,j)$	0	1	2

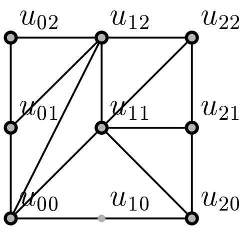
2	0	2	1
1	0	6	0
0	2	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00}
\end{aligned}$$

63. Vertex: $(6, 3, 0, 4, 2, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-6	0
0	2	0	1
$c_T(i,j)$	0	1	2

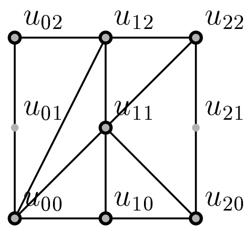
2	0	2	1
1	0	6	0
0	2	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + u_{00} &< 2 \cdot u_{10} \\ u_{00} + u_{12} &< u_{11} + u_{01} \\ 2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ u_{11} + u_{22} &< u_{21} + u_{12} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \end{aligned}$$

64. Vertex: $(6,3,2,4,0,0,3,4,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-6	0
0	2	0	1
$c_T(i,j)$	0	1	2

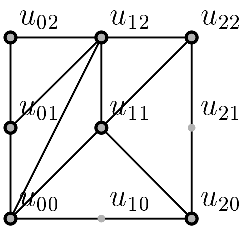
2	0	2	1
1	0	6	0
0	2	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22} \\
2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12}
\end{aligned}
$$

65. Vertex: $(6, 4, 0, 4, 0, 2, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-6	0
0	2	0	1
$c_T(i,j)$	0	1	2

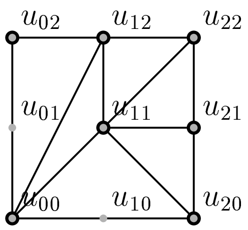
2	0	2	1
1	0	6	0
0	2	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
6 \cdot u_{11} &< 3 \cdot u_{00} + 3 \cdot u_{22} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12}
\end{aligned}
$$

66. Vertex: $(6, 3, 0, 5, 2, 0, 2, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-6	0
0	2	0	1
$c_T(i,j)$	0	1	2

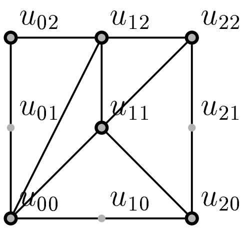
2	0	2	1
1	0	6	0
0	2	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + u_{00} &< 2 \cdot u_{10} \\ u_{00} + u_{02} &< 2 \cdot u_{01} \\ u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\ u_{11} + u_{22} &< u_{21} + u_{12} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \end{aligned}$$

67. Vertex: $(6, 4, 0, 5, 0, 0, 3, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-6	0
0	2	0	1
$c_T(i,j)$	0	1	2

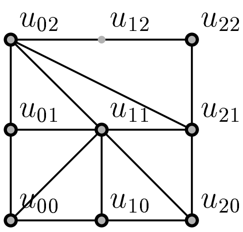
2	0	2	1
1	0	6	0
0	2	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
6 \cdot u_{11} &< 3 \cdot u_{00} + 3 \cdot u_{22} \\
2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12}
\end{aligned}$$

68. Vertex: $(6, 2, 2, 2, 4, 2, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

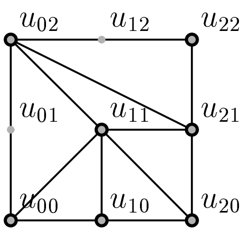
$$\begin{array}{c|ccc} 2 & 2 & 0 & 0 \\ 1 & 0 & -6 & 2 \\ 0 & 1 & 0 & 1 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 2 & 0 & 0 \\ 1 & 0 & 6 & 2 \\ 0 & 1 & 0 & 1 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ u_{11} + u_{00} &< u_{10} + u_{01} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ u_{22} + u_{02} &< 2 \cdot u_{12} \\ u_{11} + u_{20} &< u_{10} + u_{21} \end{aligned}$$

69. Vertex: $(6, 2, 2, 3, 4, 0, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-6	2
0	1	0	1
$c_T(i,j)$	0	1	2

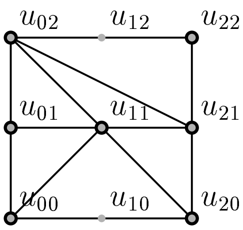
2	2	0	0
1	0	6	2
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{00} + u_{02} &< 2 \cdot u_{01} \\ 2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\ u_{22} + u_{02} &< 2 \cdot u_{12} \\ u_{11} + u_{20} &< u_{10} + u_{21} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02} \end{aligned}$$

70. Vertex: $(6, 3, 0, 3, 4, 2, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-6	2
0	1	0	1
$c_T(i,j)$	0	1	2

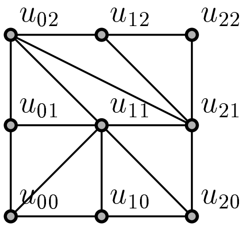
2	2	0	0
1	0	6	2
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

71. Vertex: $(6, 2, 2, 2, 4, 2, 1, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-6	2
0	1	0	1
$c_T(i,j)$	0	1	2

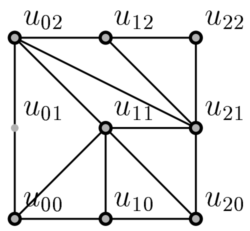
2	2	0	0
1	0	6	2
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}
$$

72. Vertex: $(6, 2, 2, 3, 4, 0, 1, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-6	2
0	1	0	1
$c_T(i,j)$	0	1	2

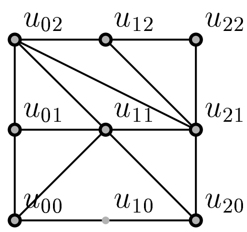
2	2	0	0
1	0	6	2
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

73. Vertex: $(6,3,0,3,4,2,1,2,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

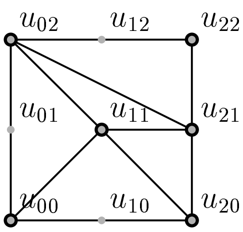
$$\begin{array}{c|ccc} 2 & 2 & 0 & 0 \\ 1 & 0 & -6 & 2 \\ 0 & 1 & 0 & 1 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 2 & 0 & 0 \\ 1 & 0 & 6 & 2 \\ 0 & 1 & 0 & 1 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{21} + u_{02} &< u_{11} + u_{12} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ 2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \end{aligned}$$

74. Vertex: $(6, 3, 0, 4, 4, 0, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-6	2
0	1	0	1
$c_T(i,j)$	0	1	2

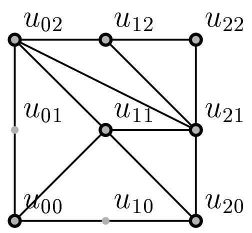
2	2	0	0
1	0	6	2
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02}
\end{aligned}$$

75. Vertex: $(6, 3, 0, 4, 4, 0, 1, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-6	2
0	1	0	1
$c_T(i,j)$	0	1	2

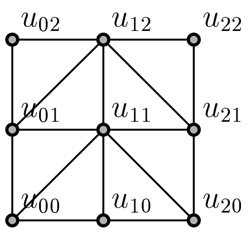
2	2	0	0
1	0	6	2
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
6 \cdot u_{11} &< 3 \cdot u_{20} + 3 \cdot u_{02} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

76. **Vertex:** $(6, 2, 2, 2, 3, 3, 1, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{01} - 2 \cdot u_{12}$

2	0	2	0
1	1	-6	1
0	1	0	1
$c_T(i,j)$	0	1	2

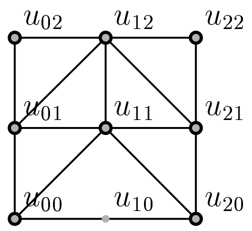
2	0	2	0
1	1	6	1
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl}
u_{21} + u_{12} & < & u_{11} + u_{22} \\
u_{11} + u_{00} & < & u_{10} + u_{01} \\
u_{11} + u_{01} & < & u_{00} + u_{12} \\
u_{11} + u_{21} & < & u_{20} + u_{12} \\
u_{01} + u_{12} & < & u_{11} + u_{02} \\
2 \cdot u_{10} & < & u_{20} + u_{00} \\
u_{11} + u_{20} & < & u_{10} + u_{21}
\end{array}$$

77. Vertex: $(6, 3, 0, 3, 3, 3, 1, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - u_{21} - u_{01} - 2 \cdot u_{12}$

2	0	2	0
1	1	-6	1
0	1	0	1
$c_T(i,j)$	0	1	2

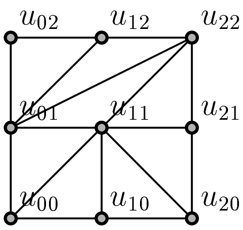
2	0	2	0
1	1	6	1
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{01} &< u_{00} + u_{12}
\end{aligned}
$$

78. Vertex: $(6, 2, 2, 2, 2, 4, 3, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	2	-6	0
0	1	0	1
$c_T(i,j)$	0	1	2

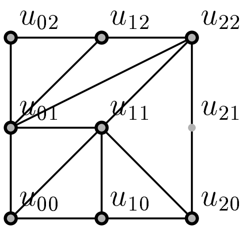
2	0	0	2
1	2	6	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{21} &< u_{20} + u_{22} \\ u_{01} + u_{22} &< u_{11} + u_{12} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ u_{11} + u_{00} &< u_{10} + u_{01} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ u_{11} + u_{20} &< u_{10} + u_{21} \end{aligned}$$

79. Vertex: $(6, 3, 2, 2, 0, 4, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	2	-6	0
0	1	0	1
$c_T(i,j)$	0	1	2

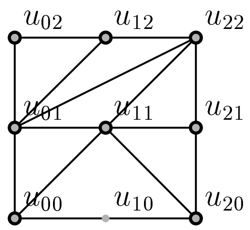
2	0	0	2
1	2	6	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl}
u_{20} + u_{22} & < & 2 \cdot u_{21} \\
2 \cdot u_{12} & < & u_{22} + u_{02} \\
u_{11} + u_{00} & < & u_{10} + u_{01} \\
u_{01} + u_{22} & < & u_{11} + u_{12} \\
2 \cdot u_{11} + u_{20} & < & 2 \cdot u_{10} + u_{22} \\
2 \cdot u_{10} & < & u_{20} + u_{00}
\end{array}$$

80. Vertex: $(6, 3, 0, 3, 2, 4, 3, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	2	-6	0
0	1	0	1
$c_T(i,j)$	0	1	2

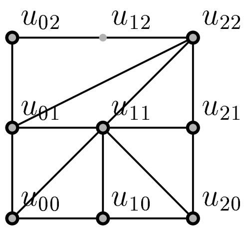
2	0	0	2
1	2	6	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{01} + u_{22} &< u_{11} + u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}$$

81. Vertex: $(6, 2, 2, 2, 2, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

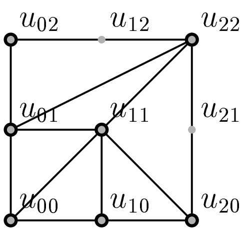
$$\begin{array}{c|ccc} 2 & 0 & 0 & 2 \\ 1 & 2 & -6 & 0 \\ 0 & 1 & 0 & 1 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 0 & 2 \\ 1 & 2 & 6 & 0 \\ 0 & 1 & 0 & 1 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{22} + u_{02} &< 2 \cdot u_{12} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ u_{11} + u_{00} &< u_{10} + u_{01} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ u_{11} + u_{20} &< u_{10} + u_{21} \\ 2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02} \end{aligned}$$

82. Vertex: $(6, 3, 2, 2, 0, 4, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	2	-6	0
0	1	0	1
$c_T(i,j)$	0	1	2

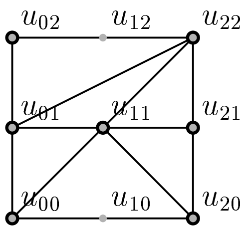
2	0	0	2
1	2	6	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

83. Vertex: $(6, 3, 0, 3, 2, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

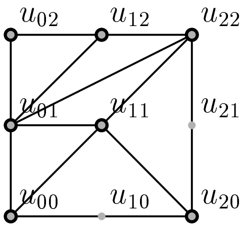
$$\begin{array}{c|ccc} 2 & 0 & 0 & 2 \\ 1 & 2 & -6 & 0 \\ 0 & 1 & 0 & 1 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 0 & 2 \\ 1 & 2 & 6 & 0 \\ 0 & 1 & 0 & 1 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{22} + u_{02} &< 2 \cdot u_{12} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\ 2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \\ 2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02} \end{aligned}$$

84. Vertex: $(6, 4, 0, 3, 0, 4, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	2	-6	0
0	1	0	1
$c_T(i,j)$	0	1	2

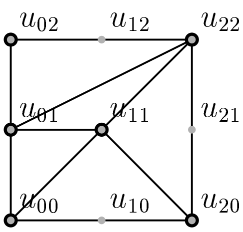
2	0	0	2
1	2	6	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
6 \cdot u_{11} &< 3 \cdot u_{00} + 3 \cdot u_{22} \\
u_{01} + u_{22} &< u_{11} + u_{12}
\end{aligned}$$

85. Vertex: $(6, 4, 0, 3, 0, 4, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{20} - u_{00} - 2 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	2	-6	0
0	1	0	1
$c_T(i,j)$	0	1	2

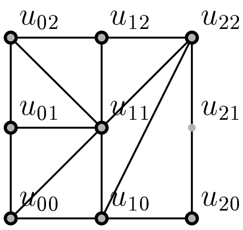
2	0	0	2
1	2	6	0
0	1	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
6 \cdot u_{11} &< 3 \cdot u_{00} + 3 \cdot u_{22} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02}
\end{aligned}$$

86. Vertex: $(6,2,4,2,0,2,4,2,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

2	1	0	2
1	0	-6	0
0	1	2	0
$c_T(i,j)$	0	1	2

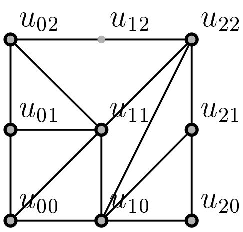
2	1	0	2
1	0	6	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

87. Vertex: $(6, 1, 4, 2, 2, 2, 4, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

2	1	0	2
1	0	-6	0
0	1	2	0
$c_T(i,j)$	0	1	2

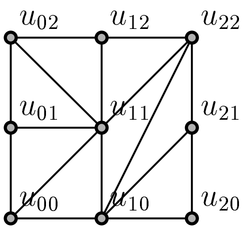
2	1	0	2
1	0	6	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{10} + u_{22} &< u_{11} + u_{21} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

88. Vertex: $(6, 1, 4, 2, 2, 2, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

2	1	0	2
1	0	-6	0
0	1	2	0
$c_T(i,j)$	0	1	2

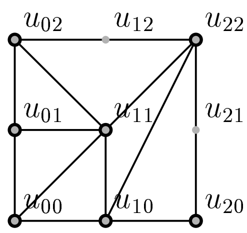
2	1	0	2
1	0	6	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{10} + u_{22} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

89. Vertex: $(6, 2, 4, 2, 0, 2, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

2	1	0	2
1	0	-6	0
0	1	2	0
$c_T(i,j)$	0	1	2

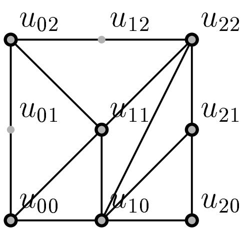
2	1	0	2
1	0	6	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\ 2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\ u_{22} + u_{02} &< 2 \cdot u_{12} \\ u_{20} + u_{22} &< 2 \cdot u_{21} \\ u_{11} + u_{00} &< u_{10} + u_{01} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \end{aligned}$$

90. Vertex: $(6,1,4,3,2,0,4,0,4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

2	1	0	2
1	0	-6	0
0	1	2	0
$c_T(i,j)$	0	1	2

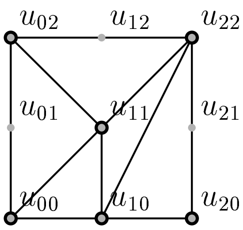
2	1	0	2
1	0	6	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{10} + u_{22} &< u_{11} + u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
6 \cdot u_{11} &< 3 \cdot u_{00} + 3 \cdot u_{22} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}
$$

91. Vertex: $(6, 2, 4, 3, 0, 0, 5, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

2	1	0	2
1	0	-6	0
0	1	2	0
$c_T(i,j)$	0	1	2

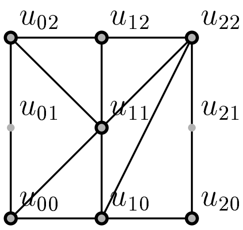
2	1	0	2
1	0	6	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
6 \cdot u_{11} &< 3 \cdot u_{00} + 3 \cdot u_{22} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

92. Vertex: $(6, 2, 4, 3, 0, 0, 4, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

2	1	0	2
1	0	-6	0
0	1	2	0
$c_T(i,j)$	0	1	2

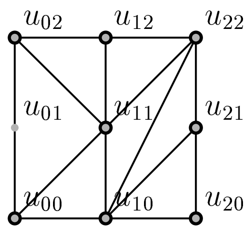
2	1	0	2
1	0	6	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

93. Vertex: $(6, 1, 4, 3, 2, 0, 3, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{22} - u_{02}$

2	1	0	2
1	0	-6	0
0	1	2	0
$c_T(i,j)$	0	1	2

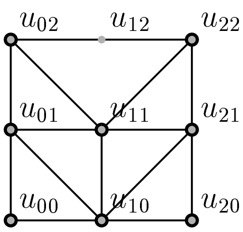
2	1	0	2
1	0	6	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{10} + u_{22} &< u_{11} + u_{21} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

94. Vertex: $(6, 1, 4, 1, 3, 3, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{21} - u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{21} - u_{01} - u_{22} - u_{02}$

2	1	0	1
1	1	-6	1
0	0	2	0
$c_T(i,j)$	0	1	2

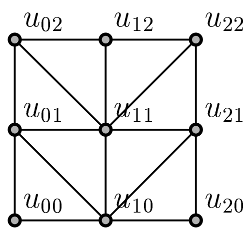
2	1	0	1
1	1	6	1
0	0	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{10} + u_{22} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

95. Vertex: $(6,1,4,1,3,3,2,2,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{21} - u_{01} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{10} - u_{21} - u_{01} - u_{22} - u_{02}$

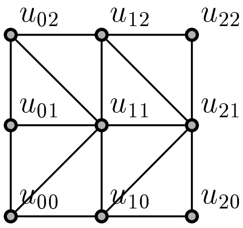
$$\begin{array}{c|ccc}
2 & 1 & 0 & 1 \\
1 & 1 & -6 & 1 \\
0 & 0 & 2 & 0 \\
\hline
c_T(i,j) & 0 & 1 & 2
\end{array}
\qquad
\begin{array}{c|ccc}
2 & 1 & 0 & 1 \\
1 & 1 & 6 & 1 \\
0 & 0 & 2 & 0 \\
\hline
\eta_T(i,j) & 0 & 1 & 2
\end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{21} &< u_{10} + u_{22} \\
u_{11} + u_{22} &< u_{21} + u_{12}
\end{aligned}$$

96. Vertex: $(6,1,3,2,4,2,1,3,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{12} - u_{02}$

2	1	1	0
1	0	-6	2
0	1	1	0
$c_T(i,j)$	0	1	2

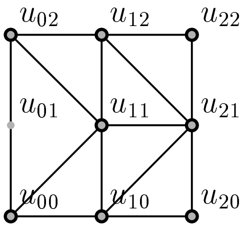
2	1	1	0
1	0	6	2
0	1	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

97. Vertex: $(6, 1, 3, 3, 4, 0, 1, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{12} - u_{02}$

2	1	1	0
1	0	-6	2
0	1	1	0
$c_T(i,j)$	0	1	2

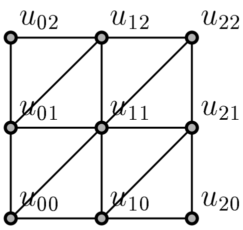
2	1	1	0
1	0	6	2
0	1	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

98. Vertex: $(6, 1, 3, 2, 3, 3, 2, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - u_{10} - u_{00} - u_{21} - u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - u_{10} - u_{00} - u_{21} - u_{01} - u_{22} - u_{12}$

2	0	1	1
1	1	-6	1
0	1	1	0
$c_T(i,j)$	0	1	2

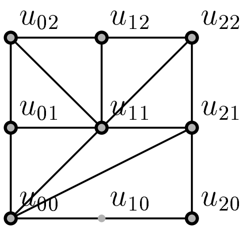
2	0	1	1
1	1	6	1
0	1	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{11} + u_{12} &< u_{01} + u_{22} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
u_{11} + u_{21} &< u_{10} + u_{22} \\
u_{01} + u_{12} &< u_{11} + u_{02}
\end{aligned}$$

99. Vertex: $(6, 2, 0, 4, 4, 2, 2, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

2	1	0	1
1	0	-6	2
0	2	0	0
$c_T(i,j)$	0	1	2

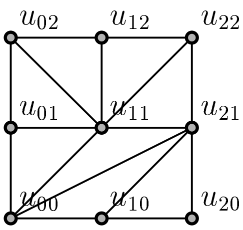
2	1	0	1
1	0	6	2
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl} u_{11} + u_{02} & < & u_{01} + u_{12} \\ u_{00} + 2 \cdot u_{21} & < & 2 \cdot u_{11} + u_{20} \\ u_{20} + u_{00} & < & 2 \cdot u_{10} \\ 2 \cdot u_{12} & < & u_{22} + u_{02} \\ 2 \cdot u_{01} & < & u_{00} + u_{02} \\ u_{11} + u_{22} & < & u_{21} + u_{12} \end{array}$$

100. Vertex: $(6,1,2,3,4,2,2,2,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

2	1	0	1
1	0	-6	2
0	2	0	0
$c_T(i,j)$	0	1	2

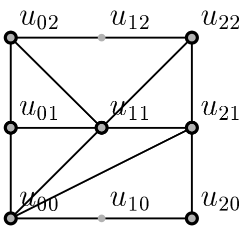
2	1	0	1
1	0	6	2
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{11} + u_{02} &< u_{01} + u_{12} \\ u_{00} + u_{21} &< u_{11} + u_{10} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ u_{11} + u_{22} &< u_{21} + u_{12} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \end{aligned}$$

101. Vertex: $(6, 2, 0, 4, 4, 2, 3, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

2	1	0	1
1	0	-6	2
0	2	0	0
$c_T(i,j)$	0	1	2

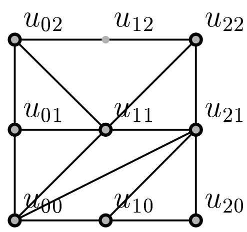
2	1	0	1
1	0	6	2
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

102. Vertex: $(6,1,2,3,4,2,3,0,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

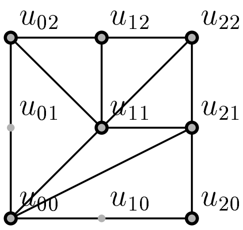
$$\begin{array}{c|ccc} 2 & 1 & 0 & 1 \\ 1 & 0 & -6 & 2 \\ 0 & 2 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 1 & 0 & 1 \\ 1 & 0 & 6 & 2 \\ 0 & 2 & 0 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\ u_{00} + u_{21} &< u_{11} + u_{10} \\ u_{22} + u_{02} &< 2 \cdot u_{12} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \end{aligned}$$

103. Vertex: $(6, 2, 0, 5, 4, 0, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

2	1	0	1
1	0	-6	2
0	2	0	0
$c_T(i,j)$	0	1	2

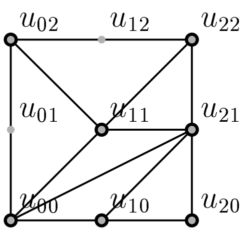
2	1	0	1
1	0	6	2
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{11} + u_{22} &< u_{21} + u_{12}
\end{aligned}$$

104. Vertex: $(6, 1, 2, 4, 4, 0, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

2	1	0	1
1	0	-6	2
0	2	0	0
$c_T(i,j)$	0	1	2

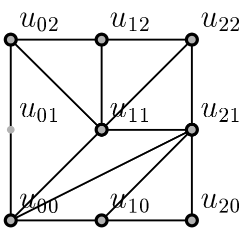
2	1	0	1
1	0	6	2
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
6 \cdot u_{11} &< 3 \cdot u_{00} + 3 \cdot u_{22} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02}
\end{aligned}$$

105. Vertex: $(6,1,2,4,4,0,2,2,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

2	1	0	1
1	0	-6	2
0	2	0	0
$c_T(i,j)$	0	1	2

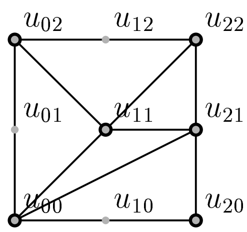
2	1	0	1
1	0	6	2
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
u_{11} + u_{22} &< u_{21} + u_{12}
\end{aligned}$$

106. Vertex: $(6, 2, 0, 5, 4, 0, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

The generic valuation of the j-invariant is: $6 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - u_{02}$

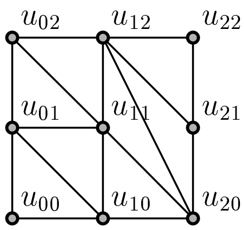
$$\begin{array}{c|ccc} 2 & 1 & 0 & 1 \\ 1 & 0 & -6 & 2 \\ 0 & 2 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 1 & 0 & 1 \\ 1 & 0 & 6 & 2 \\ 0 & 2 & 0 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\ u_{00} + u_{02} &< 2 \cdot u_{01} \\ u_{22} + u_{02} &< 2 \cdot u_{12} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ 6 \cdot u_{11} &< 3 \cdot u_{00} + 3 \cdot u_{22} \\ 2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02} \end{aligned}$$

107. Vertex: $(5,3,3,1,2,3,1,4,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{12} - u_{02}$

2	1	2	0
1	1	-7	0
0	0	1	2
$c_T(i,j)$	0	1	2

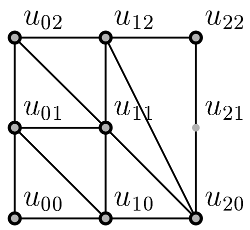
2	1	2	0
1	1	5	0
0	0	1	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

108. Vertex: $(5,4,3,1,0,3,2,4,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - u_{01} - 2 \cdot u_{12} - u_{02}$

2	1	2	0
1	1	-7	0
0	0	1	2
$c_T(i,j)$	0	1	2

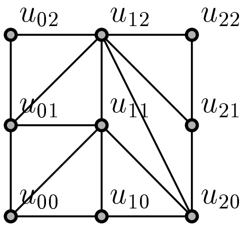
2	1	2	0
1	1	5	0
0	0	1	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{11} + u_{01} &< u_{10} + u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01}
\end{aligned}$$

109. Vertex: $(5, 3, 2, 2, 2, 3, 1, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

2	0	3	0
1	1	-7	0
0	1	0	2
$c_T(i,j)$	0	1	2

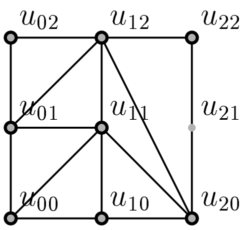
2	0	3	0
1	1	5	0
0	1	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

110. Vertex: $(5, 4, 2, 2, 0, 3, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

2	0	3	0
1	1	-7	0
0	1	0	2
$c_T(i,j)$	0	1	2

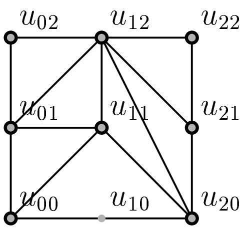
2	0	3	0
1	1	5	0
0	1	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

111. Vertex: $(5, 4, 0, 3, 2, 3, 1, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

2	0	3	0
1	1	-7	0
0	1	0	2
$c_T(i,j)$	0	1	2

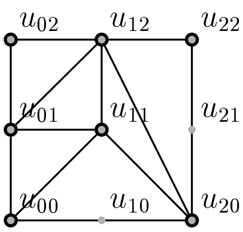
2	0	3	0
1	1	5	0
0	1	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01} \\
u_{01} + u_{12} &< u_{11} + u_{02}
\end{aligned}$$

112. Vertex: $(5,5,0,3,0,3,2,5,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{00} - u_{01} - 3 \cdot u_{12}$

2	0	3	0
1	1	-7	0
0	1	0	2
$c_T(i,j)$	0	1	2

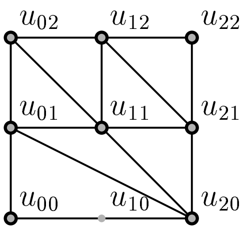
2	0	3	0
1	1	5	0
0	1	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
2 \cdot u_{11} + u_{00} &< u_{20} + 2 \cdot u_{01}
\end{aligned}$$

113. Vertex: $(5,4,0,2,3,4,1,3,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{12} - u_{02}$

2	1	1	0
1	2	-7	1
0	0	0	2
$c_T(i,j)$	0	1	2

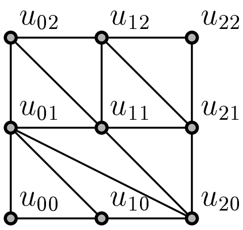
2	1	1	0
1	2	5	1
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12}
\end{aligned}$$

114. Vertex: $(5, 3, 2, 1, 3, 4, 1, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 2 \cdot u_{01} - u_{12} - u_{02}$

2	1	1	0
1	2	-7	1
0	0	0	2
$c_T(i,j)$	0	1	2

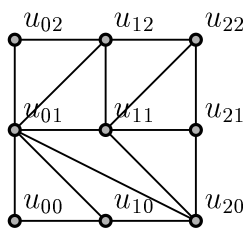
2	1	1	0
1	2	5	1
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{21} + u_{12} &< u_{11} + u_{22} \\ u_{11} + u_{02} &< u_{01} + u_{12} \\ u_{20} + u_{01} &< u_{11} + u_{10} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ u_{11} + u_{12} &< u_{21} + u_{02} \\ u_{11} + u_{21} &< u_{20} + u_{12} \end{aligned}$$

115. Vertex: $(5, 3, 2, 1, 2, 5, 2, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{01} - u_{22} - u_{12}$

2	0	1	1
1	3	-7	0
0	0	0	2
$c_T(i,j)$	0	1	2

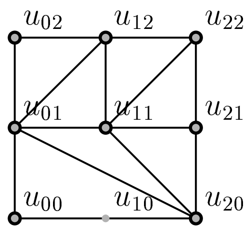
2	0	1	1
1	3	5	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{11} + u_{12} &< u_{01} + u_{22} \\ u_{20} + u_{01} &< u_{11} + u_{10} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ u_{01} + u_{12} &< u_{11} + u_{02} \\ u_{11} + u_{22} &< u_{21} + u_{12} \end{aligned}$$

116. Vertex: $(5, 4, 0, 2, 2, 5, 2, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{01} - u_{22} - u_{12}$

2	0	1	1
1	3	-7	0
0	0	0	2
$c_T(i,j)$	0	1	2

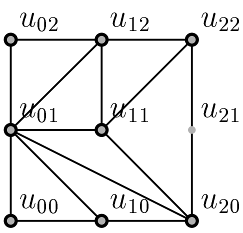
2	0	1	1
1	3	5	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{11} + u_{12} &< u_{01} + u_{22} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22}
\end{aligned}$$

117. Vertex: $(5,4,2,1,0,5,3,3,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{01} - u_{22} - u_{12}$

2	0	1	1
1	3	-7	0
0	0	0	2
$c_T(i,j)$	0	1	2

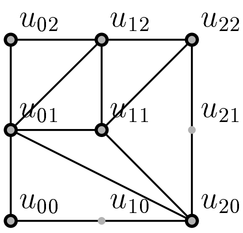
2	0	1	1
1	3	5	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + u_{22} &< 2 \cdot u_{21} \\ u_{20} + u_{01} &< u_{11} + u_{10} \\ u_{11} + u_{12} &< u_{01} + u_{22} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ u_{01} + u_{12} &< u_{11} + u_{02} \\ 2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12} \end{aligned}$$

118. Vertex: $(5, 5, 0, 2, 0, 5, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{20} - 3 \cdot u_{01} - u_{22} - u_{12}$

2	0	1	1
1	3	-7	0
0	0	0	2
$c_T(i,j)$	0	1	2

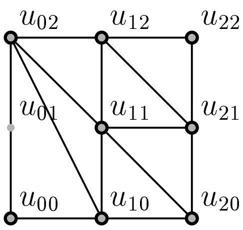
2	0	1	1
1	3	5	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{11} + u_{12} &< u_{01} + u_{22} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
2 \cdot u_{11} + u_{22} &< u_{20} + 2 \cdot u_{12}
\end{aligned}$$

119. Vertex: $(5, 2, 4, 2, 3, 0, 1, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{12} - 2 \cdot u_{02}$

2	2	1	0
1	0	-7	1
0	0	2	1
$c_T(i,j)$	0	1	2

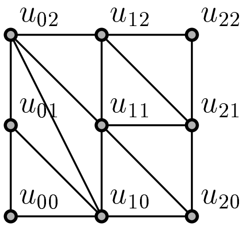
2	2	1	0
1	0	5	1
0	0	2	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
u_{11} + u_{12} &< u_{21} + u_{02}
\end{aligned}$$

120. Vertex: $(5, 2, 4, 1, 3, 2, 1, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - u_{21} - u_{12} - 2 \cdot u_{02}$

2	2	1	0
1	0	-7	1
0	0	2	1
$c_T(i,j)$	0	1	2

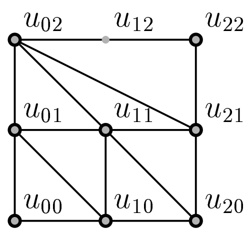
2	2	1	0
1	0	5	1
0	0	2	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

121. Vertex: $(5, 2, 3, 1, 4, 3, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - u_{10} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - u_{10} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

2	2	0	0
1	1	-7	2
0	0	1	1
$c_T(i,j)$	0	1	2

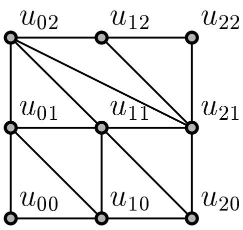
2	2	0	0
1	1	5	2
0	0	1	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{array}{rcl}
u_{10} + u_{01} & < & u_{11} + u_{00} \\
2 \cdot u_{21} + u_{02} & < & 2 \cdot u_{11} + u_{22} \\
u_{22} + u_{02} & < & 2 \cdot u_{12} \\
u_{11} + u_{20} & < & u_{10} + u_{21} \\
u_{11} + u_{10} & < & u_{20} + u_{01} \\
u_{11} + u_{01} & < & u_{10} + u_{02}
\end{array}
$$

122. Vertex: $(5, 2, 3, 1, 4, 3, 1, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - u_{10} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - u_{10} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

2	2	0	0
1	1	-7	2
0	0	1	1
$c_T(i,j)$	0	1	2

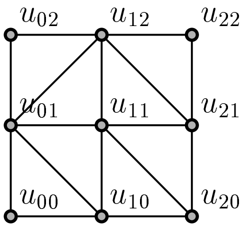
2	2	0	0
1	1	5	2
0	0	1	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

123. Vertex: $(5, 2, 3, 1, 3, 4, 1, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - u_{10} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - u_{10} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

2	0	2	0
1	2	-7	1
0	0	1	1
$c_T(i,j)$	0	1	2

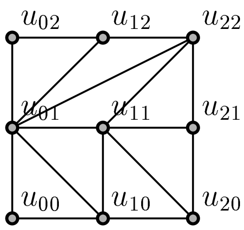
2	0	2	0
1	2	5	1
0	0	1	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

124. Vertex: $(5, 2, 3, 1, 2, 5, 3, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - u_{10} - 3 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - u_{10} - 3 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	3	-7	0
0	0	1	1
$c_T(i,j)$	0	1	2

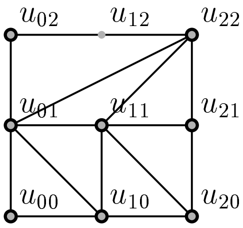
2	0	0	2
1	3	5	0
0	0	1	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{01} + u_{22} &< u_{11} + u_{12}
\end{aligned}$$

125. Vertex: $(5, 2, 3, 1, 2, 5, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - u_{10} - 3 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - u_{10} - 3 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	3	-7	0
0	0	1	1
$c_T(i,j)$	0	1	2

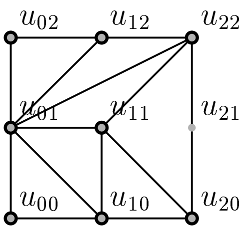
2	0	0	2
1	3	5	0
0	0	1	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02} \\
2 \cdot u_{21} &< u_{20} + u_{22}
\end{aligned}$$

126. Vertex: $(5, 3, 3, 1, 0, 5, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - u_{10} - 3 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - u_{10} - 3 \cdot u_{01} - 2 \cdot u_{22}$

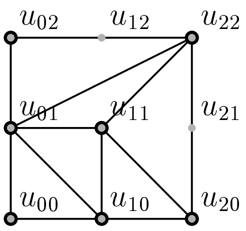
$$\begin{array}{c|ccc} 2 & 0 & 0 & 2 \\ 1 & 3 & -7 & 0 \\ 0 & 0 & 1 & 1 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 0 & 2 \\ 1 & 3 & 5 & 0 \\ 0 & 0 & 1 & 1 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{10} + u_{01} &< u_{11} + u_{00} \\ u_{20} + u_{22} &< 2 \cdot u_{21} \\ u_{01} + u_{22} &< u_{11} + u_{12} \\ 2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22} \\ u_{11} + u_{10} &< u_{20} + u_{01} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \end{aligned}$$

127. Vertex: $(5, 3, 3, 1, 0, 5, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - u_{10} - 3 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - u_{10} - 3 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	3	-7	0
0	0	1	1
$c_T(i,j)$	0	1	2

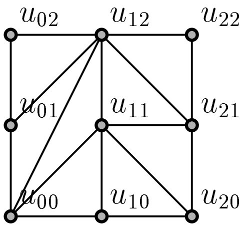
2	0	0	2
1	3	5	0
0	0	1	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
2 \cdot u_{11} + u_{20} &< 2 \cdot u_{10} + u_{22}
\end{aligned}$$

128. Vertex: $(5, 2, 2, 3, 3, 2, 1, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

2	0	3	0
1	0	-7	1
0	2	0	1
$c_T(i,j)$	0	1	2

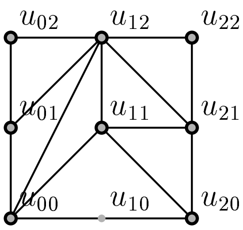
2	0	3	0
1	0	5	1
0	2	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{21} + u_{12} &< u_{11} + u_{22} \\ u_{00} + u_{12} &< u_{11} + u_{01} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ u_{11} + u_{20} &< u_{10} + u_{21} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ u_{11} + u_{21} &< u_{20} + u_{12} \end{aligned}$$

129. Vertex: $(5, 3, 0, 4, 3, 2, 1, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

2	0	3	0
1	0	-7	1
0	2	0	1
$c_T(i,j)$	0	1	2

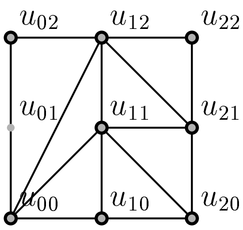
2	0	3	0
1	0	5	1
0	2	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21}
\end{aligned}
$$

130. Vertex: $(5, 2, 2, 4, 3, 0, 1, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

2	0	3	0
1	0	-7	1
0	2	0	1
$c_T(i,j)$	0	1	2

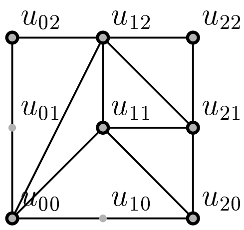
2	0	3	0
1	0	5	1
0	2	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
u_{11} + u_{21} &< u_{20} + u_{12}
\end{aligned}$$

131. Vertex: $(5,3,0,5,3,0,1,5,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{20} - 2 \cdot u_{00} - u_{21} - 3 \cdot u_{12}$

2	0	3	0
1	0	-7	1
0	2	0	1
$c_T(i,j)$	0	1	2

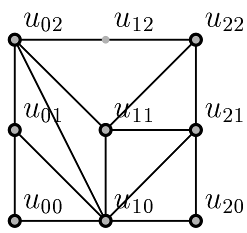
2	0	3	0
1	0	5	1
0	2	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
2 \cdot u_{11} + u_{20} &< u_{00} + 2 \cdot u_{21} \\
u_{11} + u_{21} &< u_{20} + u_{12}
\end{aligned}$$

132. Vertex: $(5, 1, 5, 1, 3, 2, 3, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{21} - u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{21} - u_{22} - 2 \cdot u_{02}$

2	2	0	1
1	0	-7	1
0	0	3	0
$c_T(i,j)$	0	1	2

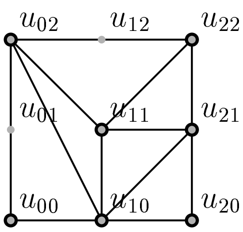
2	2	0	1
1	0	5	1
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{10} + u_{22} \\
2 \cdot u_{11} + u_{22} &< 2 \cdot u_{21} + u_{02}
\end{aligned}$$

133. Vertex: $(5, 1, 5, 2, 3, 0, 3, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{21} - u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{21} - u_{22} - 2 \cdot u_{02}$

2	2	0	1
1	0	-7	1
0	0	3	0
$c_T(i,j)$	0	1	2

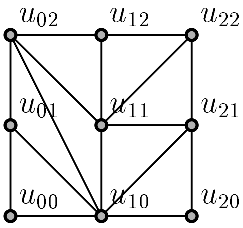
2	2	0	1
1	0	5	1
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl} u_{10} + u_{21} & < & u_{11} + u_{20} \\ 2 \cdot u_{10} + u_{02} & < & 2 \cdot u_{11} + u_{00} \\ u_{00} + u_{02} & < & 2 \cdot u_{01} \\ u_{22} + u_{02} & < & 2 \cdot u_{12} \\ u_{11} + u_{21} & < & u_{10} + u_{22} \\ 2 \cdot u_{11} + u_{22} & < & 2 \cdot u_{21} + u_{02} \end{array}$$

134. Vertex: $(5, 1, 5, 1, 3, 2, 2, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{21} - u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{21} - u_{22} - 2 \cdot u_{02}$

2	2	0	1
1	0	-7	1
0	0	3	0
$c_T(i,j)$	0	1	2

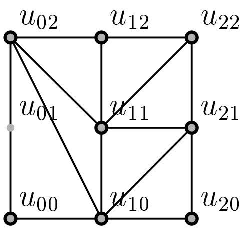
2	2	0	1
1	0	5	1
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{10} + u_{21} &< u_{11} + u_{20} \\ u_{10} + u_{02} &< u_{11} + u_{01} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ u_{11} + u_{21} &< u_{10} + u_{22} \\ u_{11} + u_{22} &< u_{21} + u_{12} \end{aligned}$$

135. Vertex: $(5, 1, 5, 2, 3, 0, 2, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{21} - u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{21} - u_{22} - 2 \cdot u_{02}$

2	2	0	1
1	0	-7	1
0	0	3	0
$c_T(i, j)$	0	1	2

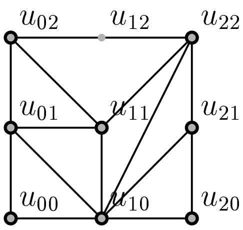
2	2	0	1
1	0	5	1
0	0	3	0
$\eta_T(i, j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{21} &< u_{10} + u_{22} \\
u_{11} + u_{22} &< u_{21} + u_{12}
\end{aligned}$$

136. Vertex: $(5, 1, 5, 1, 2, 3, 4, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{01} - 2 \cdot u_{22} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{01} - 2 \cdot u_{22} - u_{02}$

2	1	0	2
1	1	-7	0
0	0	3	0
$c_T(i,j)$	0	1	2

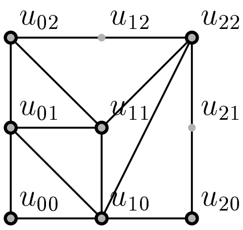
2	1	0	2
1	1	5	0
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{10} + u_{22} &< u_{11} + u_{21} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

137. Vertex: $(5, 2, 5, 1, 0, 3, 5, 0, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{01} - 2 \cdot u_{22} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{01} - 2 \cdot u_{22} - u_{02}$

2	1	0	2
1	1	-7	0
0	0	3	0
$c_T(i,j)$	0	1	2

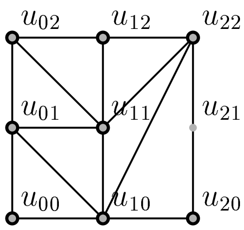
2	1	0	2
1	1	5	0
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
2 \cdot u_{11} + u_{02} &< 2 \cdot u_{01} + u_{22} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

138. Vertex: $(5, 2, 5, 1, 0, 3, 4, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{01} - 2 \cdot u_{22} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{01} - 2 \cdot u_{22} - u_{02}$

2	1	0	2
1	1	-7	0
0	0	3	0
$c_T(i,j)$	0	1	2

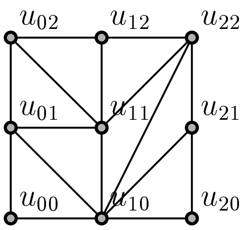
2	1	0	2
1	1	5	0
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

139. Vertex: $(5, 1, 5, 1, 2, 3, 3, 2, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{01} - 2 \cdot u_{22} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 3 \cdot u_{10} - u_{01} - 2 \cdot u_{22} - u_{02}$

2	1	0	2
1	1	-7	0
0	0	3	0
$c_T(i,j)$	0	1	2

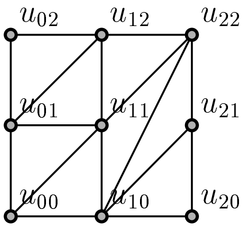
2	1	0	2
1	1	5	0
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{10} + u_{22} &< u_{11} + u_{21} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

140. Vertex: $(5, 1, 4, 2, 2, 3, 3, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - u_{01} - 2 \cdot u_{22} - u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - u_{01} - 2 \cdot u_{22} - u_{12}$

2	0	1	2
1	1	-7	0
0	1	2	0
$c_T(i,j)$	0	1	2

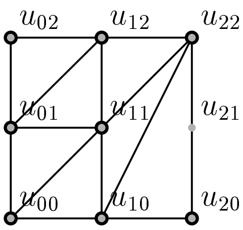
2	0	1	2
1	1	5	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{11} + u_{12} &< u_{01} + u_{22} \\
u_{10} + u_{22} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{01} + u_{12} &< u_{11} + u_{02}
\end{aligned}$$

141. Vertex: $(5, 2, 4, 2, 0, 3, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - u_{01} - 2 \cdot u_{22} - u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - u_{01} - 2 \cdot u_{22} - u_{12}$

2	0	1	2
1	1	-7	0
0	1	2	0
$c_T(i,j)$	0	1	2

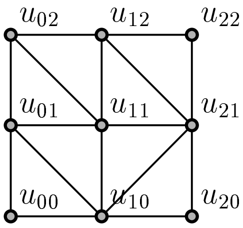
2	0	1	2
1	1	5	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{11} + u_{12} &< u_{01} + u_{22} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

142. Vertex: $(5, 1, 4, 1, 4, 3, 1, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - u_{01} - u_{12} - u_{02}$

2	1	1	0
1	1	-7	2
0	0	2	0
$c_T(i,j)$	0	1	2

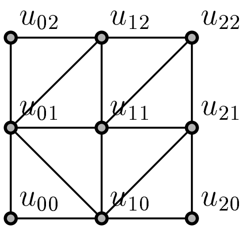
2	1	1	0
1	1	5	2
0	0	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

143. Vertex: $(5, 1, 4, 1, 3, 4, 2, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{10} - u_{21} - 2 \cdot u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{10} - u_{21} - 2 \cdot u_{01} - u_{22} - u_{12}$

2	0	1	1
1	2	-7	1
0	0	2	0
$c_T(i,j)$	0	1	2

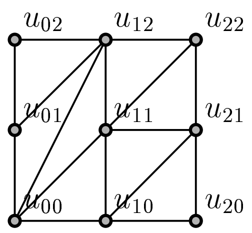
2	0	1	1
1	2	5	1
0	0	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{11} + u_{12} &< u_{01} + u_{22} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{11} + u_{21} &< u_{10} + u_{22} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{11} + u_{22} &< u_{21} + u_{12}
\end{aligned}
$$

144. Vertex: $(5, 1, 3, 3, 3, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - u_{21} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - u_{21} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-7	1
0	2	1	0
$c_T(i,j)$	0	1	2

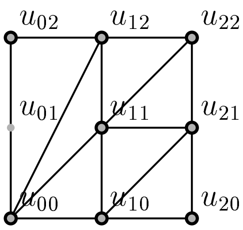
2	0	2	1
1	0	5	1
0	2	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{21} &< u_{10} + u_{22} \\
u_{11} + u_{22} &< u_{21} + u_{12}
\end{aligned}
$$

145. Vertex: $(5,1,3,4,3,0,2,4,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - u_{21} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - u_{21} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-7	1
0	2	1	0
$c_T(i,j)$	0	1	2

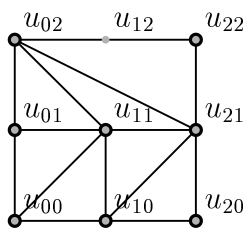
2	0	2	1
1	0	5	1
0	2	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
u_{11} + u_{21} &< u_{10} + u_{22} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

146. Vertex: $(5, 1, 3, 2, 5, 2, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-7	3
0	1	1	0
$c_T(i,j)$	0	1	2

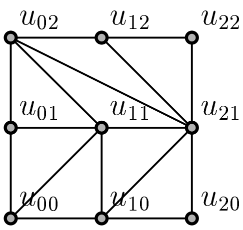
2	2	0	0
1	0	5	3
0	1	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}
$$

147. Vertex: $(5, 1, 3, 2, 5, 2, 1, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

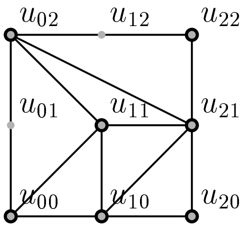
$$
\begin{array}{c|ccc}
2 & 2 & 0 & 0 \\
1 & 0 & -7 & 3 \\
0 & 1 & 1 & 0 \\
\hline
c_T(i,j) & 0 & 1 & 2
\end{array}
\qquad
\begin{array}{c|ccc}
2 & 2 & 0 & 0 \\
1 & 0 & 5 & 3 \\
0 & 1 & 1 & 0 \\
\hline
\eta_T(i,j) & 0 & 1 & 2
\end{array}
$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}
$$

148. Vertex: $(5, 1, 3, 3, 5, 0, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-7	3
0	1	1	0
$c_T(i,j)$	0	1	2

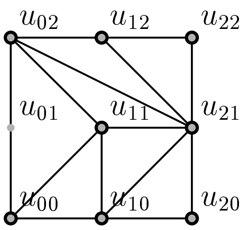
2	2	0	0
1	0	5	3
0	1	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}
$$

149. Vertex: $(5, 1, 3, 3, 5, 0, 1, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 3 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-7	3
0	1	1	0
$c_T(i,j)$	0	1	2

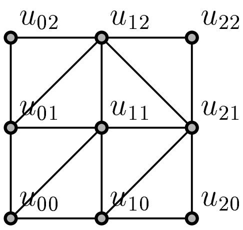
2	2	0	0
1	0	5	3
0	1	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
2 \cdot u_{11} + u_{00} &< 2 \cdot u_{10} + u_{02}
\end{aligned}
$$

150. Vertex: $(5, 1, 3, 2, 4, 3, 1, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - 2 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

2	0	2	0
1	1	-7	2
0	1	1	0
$c_T(i,j)$	0	1	2

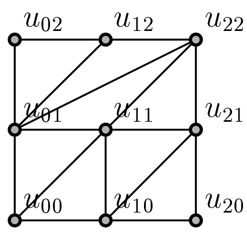
2	0	2	0
1	1	5	2
0	1	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{11} + u_{10} &< u_{00} + u_{21} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

151. Vertex: $(5, 1, 3, 2, 3, 4, 3, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	2	-7	1
0	1	1	0
$c_T(i,j)$	0	1	2

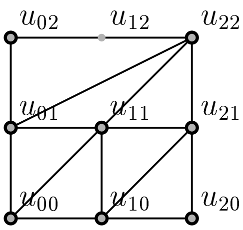
2	0	0	2
1	2	5	1
0	1	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{10} + u_{21} &< u_{11} + u_{20} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ u_{11} + u_{21} &< u_{10} + u_{22} \\ u_{11} + u_{00} &< u_{10} + u_{01} \\ u_{01} + u_{22} &< u_{11} + u_{12} \\ u_{11} + u_{10} &< u_{00} + u_{21} \end{aligned}$$

152. Vertex: $(5, 1, 3, 2, 3, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - u_{10} - u_{00} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - u_{10} - u_{00} - u_{21} - 2 \cdot u_{01} - 2 \cdot u_{22}$

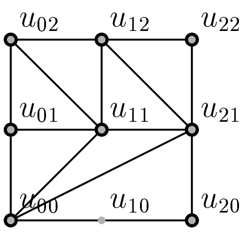
$$\begin{array}{c|ccc} 2 & 0 & 0 & 2 \\ 1 & 2 & -7 & 1 \\ 0 & 1 & 1 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 0 & 2 \\ 1 & 2 & 5 & 1 \\ 0 & 1 & 1 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl} u_{10} + u_{21} & < & u_{11} + u_{20} \\ u_{22} + u_{02} & < & 2 \cdot u_{12} \\ u_{11} + u_{10} & < & u_{00} + u_{21} \\ u_{11} + u_{21} & < & u_{10} + u_{22} \\ u_{11} + u_{00} & < & u_{10} + u_{01} \\ 2 \cdot u_{01} + u_{22} & < & 2 \cdot u_{11} + u_{02} \end{array}$$

153. Vertex: $(5, 2, 0, 4, 5, 2, 1, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

2	1	1	0
1	0	-7	3
0	2	0	0
$c_T(i,j)$	0	1	2

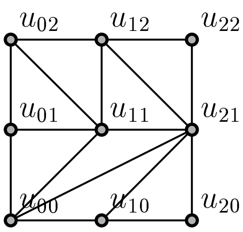
2	1	1	0
1	0	5	3
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{12} &< u_{21} + u_{02}
\end{aligned}$$

154. Vertex: $(5, 1, 2, 3, 5, 2, 1, 3, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

2	1	1	0
1	0	-7	3
0	2	0	0
$c_T(i,j)$	0	1	2

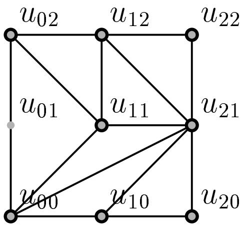
2	1	1	0
1	0	5	3
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{12} &< u_{21} + u_{02}
\end{aligned}$$

155. Vertex: $(5, 1, 2, 4, 5, 0, 1, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

2	1	1	0
1	0	-7	3
0	2	0	0
$c_T(i,j)$	0	1	2

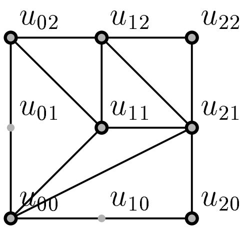
2	1	1	0
1	0	5	3
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
u_{11} + u_{12} &< u_{21} + u_{02}
\end{aligned}$$

156. Vertex: $(5, 2, 0, 5, 5, 0, 1, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{12} - u_{02}$

2	1	1	0
1	0	-7	3
0	2	0	0
$c_T(i,j)$	0	1	2

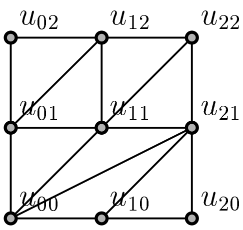
2	1	1	0
1	0	5	3
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{11} + u_{02} &< u_{00} + 2 \cdot u_{12} \\
u_{11} + u_{12} &< u_{21} + u_{02}
\end{aligned}$$

157. Vertex: $(5, 1, 2, 3, 4, 3, 2, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{01} - u_{22} - u_{12}$

2	0	1	1
1	1	-7	2
0	2	0	0
$c_T(i,j)$	0	1	2

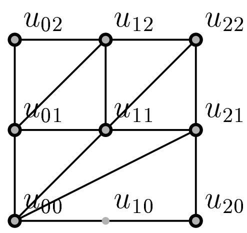
2	0	1	1
1	1	5	2
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{11} + u_{12} &< u_{01} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{22} &< u_{21} + u_{12}
\end{aligned}
$$

158. Vertex: $(5,2,0,4,4,3,2,3,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $7 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{01} - u_{22} - u_{12}$

The generic valuation of the j-invariant is: $7 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - u_{01} - u_{22} - u_{12}$

2	0	1	1
1	1	-7	2
0	2	0	0
$c_T(i,j)$	0	1	2

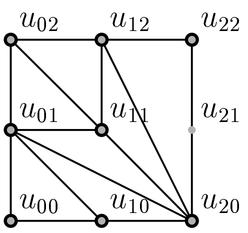
2	0	1	1
1	1	5	2
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{11} + u_{12} &< u_{01} + u_{22} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{11} + u_{22} &< u_{21} + u_{12}
\end{aligned}$$

159. Vertex: $(4, 5, 2, 1, 0, 4, 2, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

2	1	2	0
1	2	-8	0
0	0	0	3
$c_T(i,j)$	0	1	2

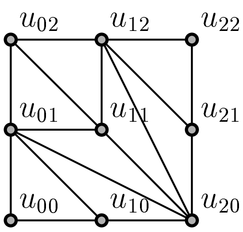
2	1	2	0
1	2	4	0
0	0	0	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00}
\end{aligned}
$$

160. Vertex: $(4, 4, 2, 1, 2, 4, 1, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

2	1	2	0
1	2	-8	0
0	0	0	3
$c_T(i,j)$	0	1	2

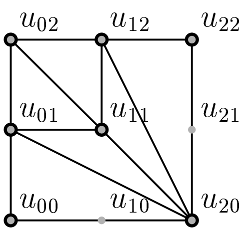
2	1	2	0
1	2	4	0
0	0	0	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + u_{12} &< u_{11} + u_{21} \\ u_{11} + u_{02} &< u_{01} + u_{12} \\ u_{20} + u_{01} &< u_{11} + u_{10} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \end{aligned}$$

161. Vertex: $(4, 6, 0, 2, 0, 4, 2, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

2	1	2	0
1	2	-8	0
0	0	0	3
$c_T(i,j)$	0	1	2

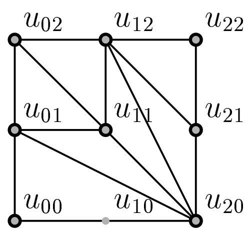
2	1	2	0
1	2	4	0
0	0	0	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

162. Vertex: $(4, 5, 0, 2, 2, 4, 1, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{20} - 2 \cdot u_{01} - 2 \cdot u_{12} - u_{02}$

2	1	2	0
1	2	-8	0
0	0	0	3
$c_T(i,j)$	0	1	2

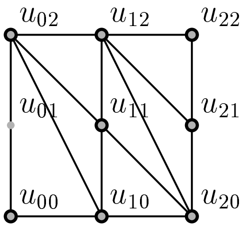
2	1	2	0
1	2	4	0
0	0	0	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{11} + u_{02} &< u_{01} + u_{12} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{21} &< u_{20} + u_{22}
\end{aligned}
$$

163. Vertex: $(4, 3, 4, 2, 2, 0, 1, 4, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

2	2	2	0
1	0	-8	0
0	0	2	2
$c_T(i,j)$	0	1	2

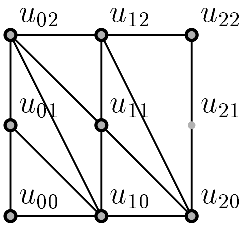
2	2	2	0
1	0	4	0
0	0	2	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

164. Vertex: $(4, 4, 4, 1, 0, 2, 2, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

2	2	2	0
1	0	-8	0
0	0	2	2
$c_T(i,j)$	0	1	2

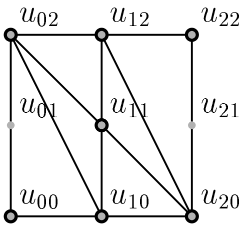
2	2	2	0
1	0	4	0
0	0	2	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

165. Vertex: $(4, 4, 4, 2, 0, 0, 2, 4, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

2	2	2	0
1	0	-8	0
0	0	2	2
$c_T(i,j)$	0	1	2

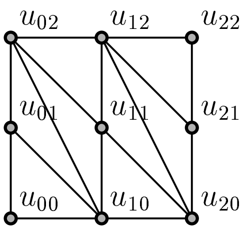
2	2	2	0
1	0	4	0
0	0	2	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

166. Vertex: $(4, 3, 4, 1, 2, 2, 1, 4, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{10} - 2 \cdot u_{12} - 2 \cdot u_{02}$

2	2	2	0
1	0	-8	0
0	0	2	2
$c_T(i,j)$	0	1	2

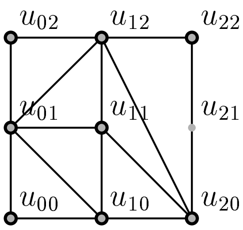
2	2	2	0
1	0	4	0
0	0	2	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}
$$

167. Vertex: $(4, 4, 3, 1, 0, 4, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - 2 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - 2 \cdot u_{01} - 3 \cdot u_{12}$

2	0	3	0
1	2	-8	0
0	0	1	2
$c_T(i,j)$	0	1	2

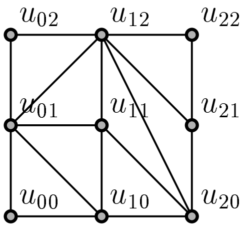
2	0	3	0
1	2	4	0
0	0	1	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

168. Vertex: $(4, 3, 3, 1, 2, 4, 1, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - 2 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{10} - 2 \cdot u_{01} - 3 \cdot u_{12}$

2	0	3	0
1	2	-8	0
0	0	1	2
$c_T(i,j)$	0	1	2

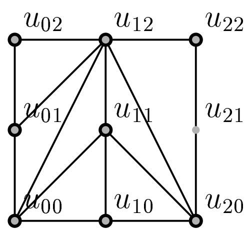
2	0	3	0
1	2	4	0
0	0	1	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{11} + u_{10} &< u_{20} + u_{01} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

169. Vertex: $(4, 4, 2, 3, 0, 2, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

2	0	4	0
1	0	-8	0
0	2	0	2
$c_T(i,j)$	0	1	2

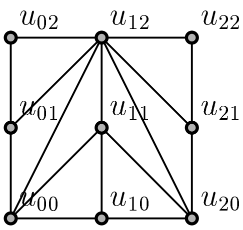
2	0	4	0
1	0	4	0
0	2	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

170. Vertex: $(4, 3, 2, 3, 2, 2, 1, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

2	0	4	0
1	0	-8	0
0	2	0	2
$c_T(i,j)$	0	1	2

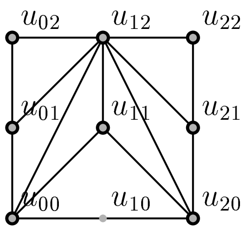
2	0	4	0
1	0	4	0
0	2	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}
$$

171. Vertex: $(4, 4, 0, 4, 2, 2, 1, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

2	0	4	0
1	0	-8	0
0	2	0	2
$c_T(i,j)$	0	1	2

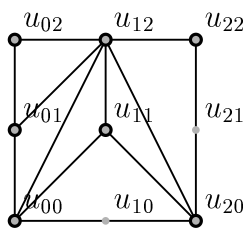
2	0	4	0
1	0	4	0
0	2	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
4 \cdot u_{11} &< u_{20} + u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

172. Vertex: $(4, 5, 0, 4, 0, 2, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

2	0	4	0
1	0	-8	0
0	2	0	2
$c_T(i,j)$	0	1	2

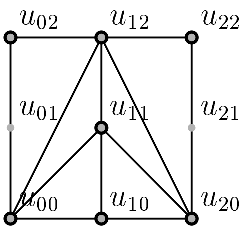
2	0	4	0
1	0	4	0
0	2	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< u_{20} + u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}
$$

173. Vertex: $(4, 4, 2, 4, 0, 0, 2, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

2	0	4	0
1	0	-8	0
0	2	0	2
$c_T(i,j)$	0	1	2

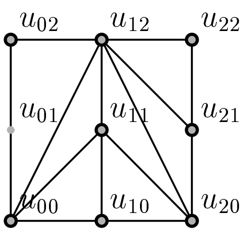
2	0	4	0
1	0	4	0
0	2	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

174. Vertex: $(4, 3, 2, 4, 2, 0, 1, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

2	0	4	0
1	0	-8	0
0	2	0	2
$c_T(i,j)$	0	1	2

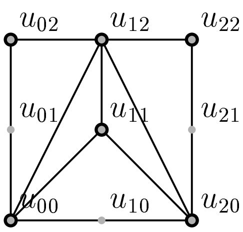
2	0	4	0
1	0	4	0
0	2	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

175. Vertex: $(4, 5, 0, 5, 0, 0, 2, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

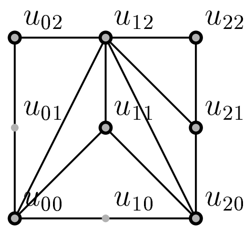
$$\begin{array}{c|ccc} 2 & 0 & 4 & 0 \\ 1 & 0 & -8 & 0 \\ 0 & 2 & 0 & 2 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 4 & 0 \\ 1 & 0 & 4 & 0 \\ 0 & 2 & 0 & 2 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl} u_{20} + 2 \cdot u_{12} & < & 2 \cdot u_{11} + u_{22} \\ u_{00} + u_{02} & < & 2 \cdot u_{01} \\ u_{20} + u_{00} & < & 2 \cdot u_{10} \\ u_{20} + u_{22} & < & 2 \cdot u_{21} \\ 4 \cdot u_{11} & < & u_{20} + u_{00} + 2 \cdot u_{12} \\ u_{00} + 2 \cdot u_{12} & < & 2 \cdot u_{11} + u_{02} \end{array}$$

176. Vertex: $(4, 4, 0, 5, 2, 0, 1, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{00} - 4 \cdot u_{12}$

2	0	4	0
1	0	-8	0
0	2	0	2
$c_T(i,j)$	0	1	2

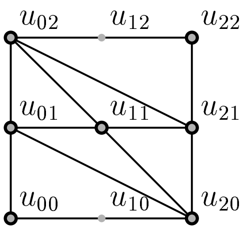
2	0	4	0
1	0	4	0
0	2	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
4 \cdot u_{11} &< u_{20} + u_{00} + 2 \cdot u_{12}
\end{aligned}$$

177. Vertex: $(4, 4, 0, 2, 4, 4, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

2	2	0	0
1	2	-8	2
0	0	0	2
$c_T(i,j)$	0	1	2

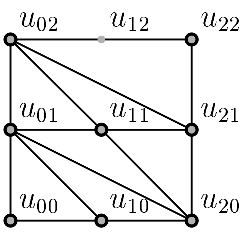
2	2	0	0
1	2	4	2
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

178. Vertex: $(4, 3, 2, 1, 4, 4, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

2	2	0	0
1	2	-8	2
0	0	0	2
$c_T(i,j)$	0	1	2

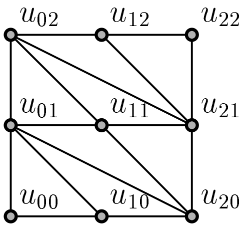
2	2	0	0
1	2	4	2
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

179. Vertex: $(4, 3, 2, 1, 4, 4, 1, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

2	2	0	0
1	2	-8	2
0	0	0	2
$c_T(i,j)$	0	1	2

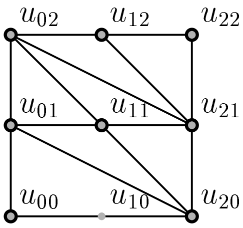
2	2	0	0
1	2	4	2
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00}
\end{aligned}
$$

180. Vertex: $(4, 4, 0, 2, 4, 4, 1, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{02}$

2	2	0	0
1	2	-8	2
0	0	0	2
$c_T(i,j)$	0	1	2

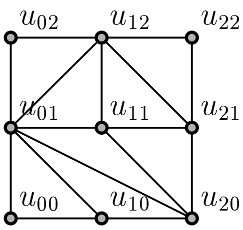
2	2	0	0
1	2	4	2
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}
$$

181. Vertex: $(4,3,2,1,3,5,1,4,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{12}$

2	0	2	0
1	3	-8	1
0	0	0	2
$c_T(i,j)$	0	1	2

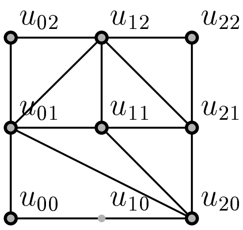
2	0	2	0
1	3	4	1
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12}
\end{aligned}$$

182. Vertex: $(4,4,0,2,3,5,1,4,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{12}$

2	0	2	0
1	3	-8	1
0	0	0	2
$c_T(i,j)$	0	1	2

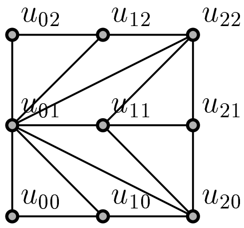
2	0	2	0
1	3	4	1
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
u_{11} + u_{21} &< u_{20} + u_{12}
\end{aligned}$$

183. Vertex: $(4,3,2,1,2,6,3,2,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	4	-8	0
0	0	0	2
$c_T(i,j)$	0	1	2

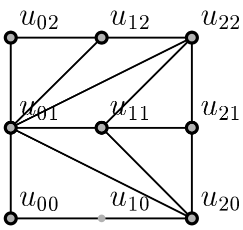
2	0	0	2
1	4	4	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{01} + u_{22} &< u_{11} + u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02}
\end{aligned}$$

184. Vertex: $(4, 4, 0, 2, 2, 6, 3, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	4	-8	0
0	0	0	2
$c_T(i,j)$	0	1	2

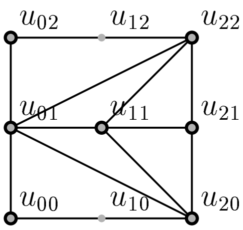
2	0	0	2
1	4	4	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{01} + u_{22} &< u_{11} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

185. Vertex: $(4, 4, 0, 2, 2, 6, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	4	-8	0
0	0	0	2
$c_T(i,j)$	0	1	2

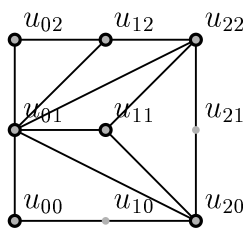
2	0	0	2
1	4	4	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02}
\end{aligned}$$

186. Vertex: $(4, 5, 0, 2, 0, 6, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	4	-8	0
0	0	0	2
$c_T(i,j)$	0	1	2

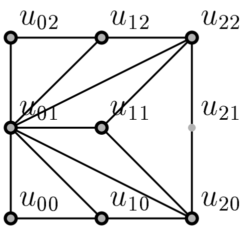
2	0	0	2
1	4	4	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{01} + u_{22} &< u_{11} + u_{12} \\
4 \cdot u_{11} &< u_{20} + 2 \cdot u_{01} + u_{22}
\end{aligned}$$

187. Vertex: $(4,4,2,1,0,6,4,2,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	4	-8	0
0	0	0	2
$c_T(i,j)$	0	1	2

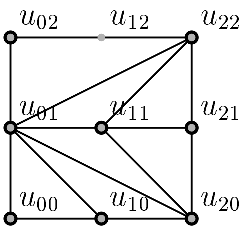
2	0	0	2
1	4	4	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + u_{01} &< u_{11} + u_{10} \\ u_{20} + u_{22} &< 2 \cdot u_{21} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 4 \cdot u_{11} &< u_{20} + 2 \cdot u_{01} + u_{22} \\ u_{01} + u_{22} &< u_{11} + u_{12} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \end{aligned}$$

188. Vertex: $(4, 3, 2, 1, 2, 6, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	4	-8	0
0	0	0	2
$c_T(i,j)$	0	1	2

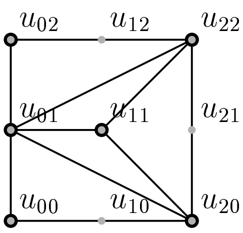
2	0	0	2
1	4	4	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{01} &< u_{11} + u_{10} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02} \\
2 \cdot u_{21} &< u_{20} + u_{22}
\end{aligned}$$

189. Vertex: $(4, 5, 0, 2, 0, 6, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	4	-8	0
0	0	0	2
$c_T(i,j)$	0	1	2

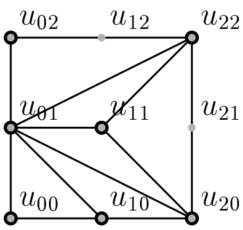
2	0	0	2
1	4	4	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< u_{20} + 2 \cdot u_{01} + u_{22} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02}
\end{aligned}$$

190. Vertex: $(4, 4, 2, 1, 0, 6, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{20} - 4 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	4	-8	0
0	0	0	2
$c_T(i,j)$	0	1	2

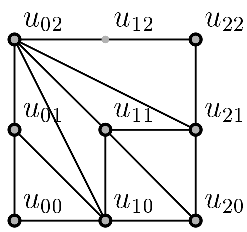
2	0	0	2
1	4	4	0
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{11} &< u_{20} + 2 \cdot u_{01} + u_{22} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02}
\end{aligned}
$$

191. Vertex: $(4,2,4,1,4,2,2,0,5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

2	3	0	0
1	0	-8	2
0	0	2	1
$c_T(i,j)$	0	1	2

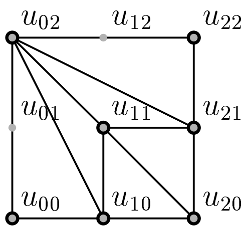
2	3	0	0
1	0	4	2
0	0	2	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

192. Vertex: $(4, 2, 4, 2, 4, 0, 2, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

2	3	0	0
1	0	-8	2
0	0	2	1
$c_T(i,j)$	0	1	2

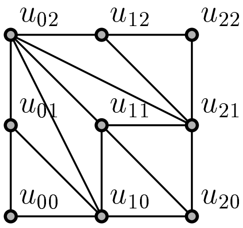
2	3	0	0
1	0	4	2
0	0	2	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

193. Vertex: $(4, 2, 4, 1, 4, 2, 1, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

2	3	0	0
1	0	-8	2
0	0	2	1
$c_T(i,j)$	0	1	2

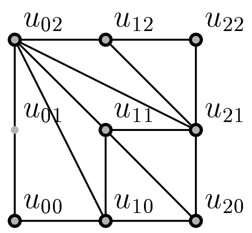
2	3	0	0
1	0	4	2
0	0	2	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

194. Vertex: $(4, 2, 4, 2, 4, 0, 1, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{20} - 2 \cdot u_{10} - 2 \cdot u_{21} - 3 \cdot u_{02}$

2	3	0	0
1	0	-8	2
0	0	2	1
$c_T(i,j)$	0	1	2

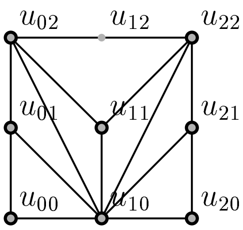
2	3	0	0
1	0	4	2
0	0	2	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
u_{11} + u_{20} &< u_{10} + u_{21}
\end{aligned}$$

195. Vertex: $(4, 1, 6, 1, 2, 2, 4, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

2	2	0	2
1	0	-8	0
0	0	4	0
$c_T(i,j)$	0	1	2

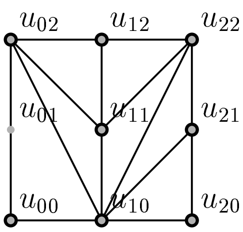
2	2	0	2
1	0	4	0
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{10} + u_{22} &< u_{11} + u_{21} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + u_{22} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

196. Vertex: $(4, 1, 6, 2, 2, 0, 3, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

2	2	0	2
1	0	-8	0
0	0	4	0
$c_T(i,j)$	0	1	2

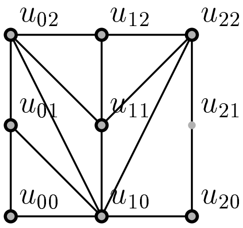
2	2	0	2
1	0	4	0
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{22} &< u_{11} + u_{21} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

197. Vertex: $(4, 2, 6, 1, 0, 2, 4, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

2	2	0	2
1	0	-8	0
0	0	4	0
$c_T(i,j)$	0	1	2

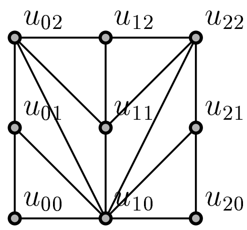
2	2	0	2
1	0	4	0
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

198. Vertex: $(4, 1, 6, 1, 2, 2, 3, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

2	2	0	2
1	0	-8	0
0	0	4	0
$c_T(i,j)$	0	1	2

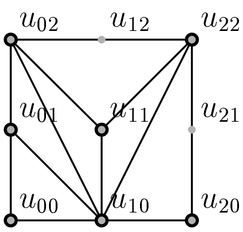
2	2	0	2
1	0	4	0
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{22} &< u_{11} + u_{21} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{21} &< u_{20} + u_{22}
\end{aligned}$$

199. Vertex: $(4, 2, 6, 1, 0, 2, 5, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

2	2	0	2
1	0	-8	0
0	0	4	0
$c_T(i,j)$	0	1	2

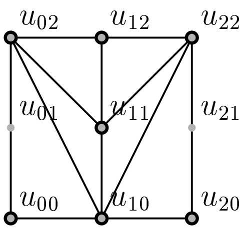
2	2	0	2
1	0	4	0
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{02} &< u_{11} + u_{01} \\
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + u_{22} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

200. Vertex: $(4, 2, 6, 2, 0, 0, 4, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

2	2	0	2
1	0	-8	0
0	0	4	0
$c_T(i,j)$	0	1	2

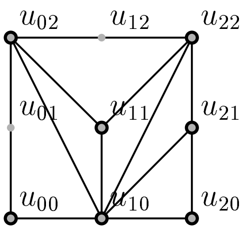
2	2	0	2
1	0	4	0
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

201. Vertex: $(4,1,6,2,2,0,4,0,5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

2	2	0	2
1	0	-8	0
0	0	4	0
$c_T(i,j)$	0	1	2

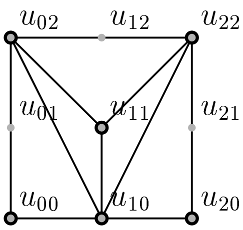
2	2	0	2
1	0	4	0
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{10} + u_{22} &< u_{11} + u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + u_{22} + u_{02}
\end{aligned}$$

202. Vertex: $(4, 2, 6, 2, 0, 0, 5, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 4 \cdot u_{10} - 2 \cdot u_{22} - 2 \cdot u_{02}$

2	2	0	2
1	0	-8	0
0	0	4	0
$c_T(i,j)$	0	1	2

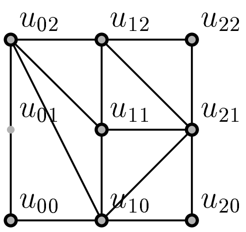
2	2	0	2
1	0	4	0
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + u_{22} + u_{02}
\end{aligned}$$

203. Vertex: $(4, 1, 5, 2, 4, 0, 1, 3, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{12} - 2 \cdot u_{02}$

2	2	1	0
1	0	-8	2
0	0	3	0
$c_T(i,j)$	0	1	2

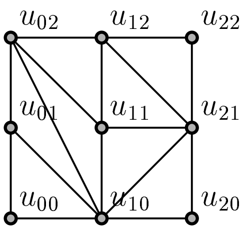
2	2	1	0
1	0	4	2
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{11} + u_{12} &< u_{21} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

204. Vertex: $(4, 1, 5, 1, 4, 2, 1, 3, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{12} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{21} - u_{12} - 2 \cdot u_{02}$

2	2	1	0
1	0	-8	2
0	0	3	0
$c_T(i,j)$	0	1	2

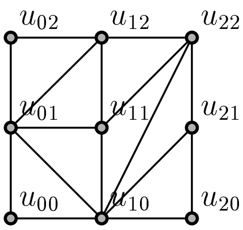
2	2	1	0
1	0	4	2
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{10} + u_{02} &< u_{11} + u_{01} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
u_{11} + u_{12} &< u_{21} + u_{02}
\end{aligned}
$$

205. Vertex: $(4,1,5,1,2,4,3,3,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{01} - 2 \cdot u_{22} - u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{01} - 2 \cdot u_{22} - u_{12}$

2	0	1	2
1	2	-8	0
0	0	3	0
$c_T(i,j)$	0	1	2

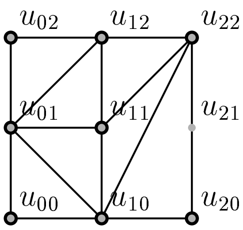
2	0	1	2
1	2	4	0
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{22} &< u_{11} + u_{21} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{11} + u_{12} &< u_{01} + u_{22} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

206. Vertex: $(4, 2, 5, 1, 0, 4, 4, 3, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{01} - 2 \cdot u_{22} - u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{10} - 2 \cdot u_{01} - 2 \cdot u_{22} - u_{12}$

2	0	1	2
1	2	-8	0
0	0	3	0
$c_T(i,j)$	0	1	2

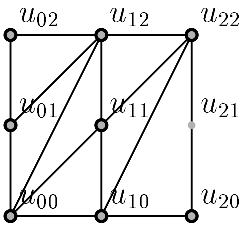
2	0	1	2
1	2	4	0
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{11} + u_{12} &< u_{01} + u_{22} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

207. Vertex: $(4, 2, 4, 3, 0, 2, 4, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{00} - 2 \cdot u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{00} - 2 \cdot u_{22} - 2 \cdot u_{12}$

2	0	2	2
1	0	-8	0
0	2	2	0
$c_T(i,j)$	0	1	2

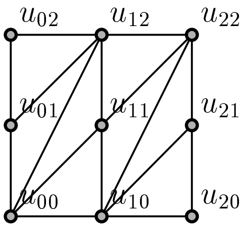
2	0	2	2
1	0	4	0
0	2	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

208. Vertex: $(4, 1, 4, 3, 2, 2, 3, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{00} - 2 \cdot u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{00} - 2 \cdot u_{22} - 2 \cdot u_{12}$

2	0	2	2
1	0	-8	0
0	2	2	0
$c_T(i,j)$	0	1	2

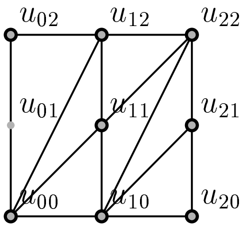
2	0	2	2
1	0	4	0
0	2	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{10} + u_{22} &< u_{11} + u_{21} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}
$$

209. Vertex: $(4, 1, 4, 4, 2, 0, 3, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{00} - 2 \cdot u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{00} - 2 \cdot u_{22} - 2 \cdot u_{12}$

2	0	2	2
1	0	-8	0
0	2	2	0
$c_T(i,j)$	0	1	2

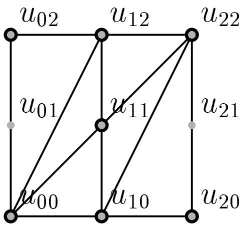
2	0	2	2
1	0	4	0
0	2	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{22} &< u_{11} + u_{21} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

210. Vertex: $(4, 2, 4, 4, 0, 0, 4, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{00} - 2 \cdot u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{00} - 2 \cdot u_{22} - 2 \cdot u_{12}$

2	0	2	2
1	0	-8	0
0	2	2	0
$c_T(i,j)$	0	1	2

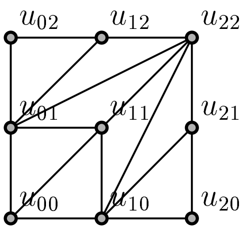
2	0	2	2
1	0	4	0
0	2	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}
$$

211. Vertex: $(4,1,4,2,2,4,4,2,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{01} - 3 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{01} - 3 \cdot u_{22}$

2	0	0	3
1	2	-8	0
0	1	2	0
$c_T(i,j)$	0	1	2

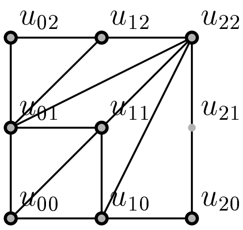
2	0	0	3
1	2	4	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{22} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
u_{01} + u_{22} &< u_{11} + u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01}
\end{aligned}$$

212. Vertex: $(4,2,4,2,0,4,5,2,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{01} - 3 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{01} - 3 \cdot u_{22}$

2	0	0	3
1	2	-8	0
0	1	2	0
$c_T(i,j)$	0	1	2

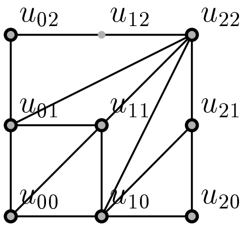
2	0	0	3
1	2	4	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
u_{01} + u_{22} &< u_{11} + u_{12} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02}
\end{aligned}
$$

213. Vertex: $(4, 1, 4, 2, 2, 4, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{01} - 3 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{01} - 3 \cdot u_{22}$

2	0	0	3
1	2	-8	0
0	1	2	0
$c_T(i,j)$	0	1	2

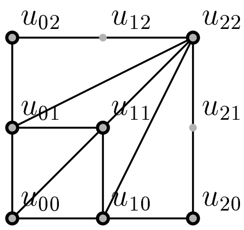
2	0	0	3
1	2	4	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{10} + u_{22} &< u_{11} + u_{21} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02}
\end{aligned}
$$

214. Vertex: $(4, 2, 4, 2, 0, 4, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{01} - 3 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - u_{00} - 2 \cdot u_{01} - 3 \cdot u_{22}$

2	0	0	3
1	2	-8	0
0	1	2	0
$c_T(i,j)$	0	1	2

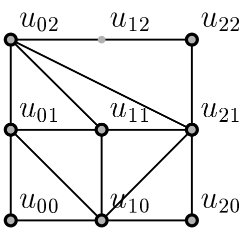
2	0	0	3
1	2	4	0
0	1	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
u_{11} + u_{00} &< u_{10} + u_{01} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02}
\end{aligned}$$

215. Vertex: $(4, 1, 4, 1, 5, 3, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

2	2	0	0
1	1	-8	3
0	0	2	0
$c_T(i,j)$	0	1	2

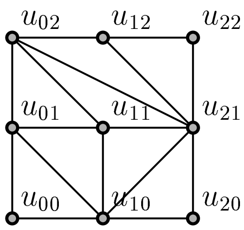
2	2	0	0
1	1	4	3
0	0	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

216. Vertex: $(4, 1, 4, 1, 5, 3, 1, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{02}$

2	2	0	0
1	1	-8	3
0	0	2	0
$c_T(i,j)$	0	1	2

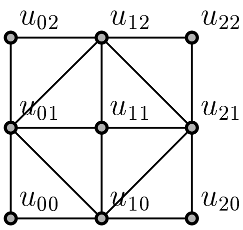
2	2	0	0
1	1	4	3
0	0	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
u_{11} + u_{01} &< u_{10} + u_{02}
\end{aligned}$$

217. Vertex: $(4, 1, 4, 1, 4, 4, 1, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{12}$

2	0	2	0
1	2	-8	2
0	0	2	0
$c_T(i,j)$	0	1	2

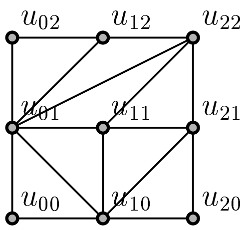
2	0	2	0
1	2	4	2
0	0	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
u_{01} + u_{12} &< u_{11} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}
$$

218. Vertex: $(4,1,4,1,3,5,3,2,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	3	-8	1
0	0	2	0
$c_T(i,j)$	0	1	2

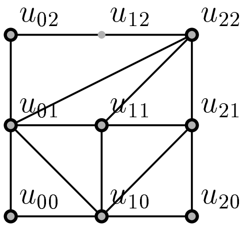
2	0	0	2
1	3	4	1
0	0	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{01} + u_{22} &< u_{11} + u_{12} \\
u_{11} + u_{21} &< u_{10} + u_{22} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

219. Vertex: $(4,1,4,1,3,5,4,0,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{10} - u_{21} - 3 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	3	-8	1
0	0	2	0
$c_T(i,j)$	0	1	2

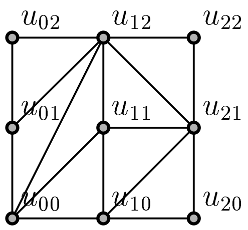
2	0	0	2
1	3	4	1
0	0	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{11} + u_{21} &< u_{10} + u_{22} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02}
\end{aligned}$$

220. Vertex: $(4, 1, 3, 3, 4, 2, 1, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

2	0	3	0
1	0	-8	2
0	2	1	0
$c_T(i,j)$	0	1	2

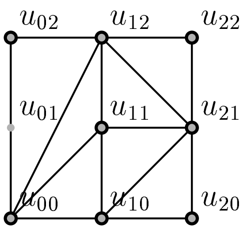
2	0	3	0
1	0	4	2
0	2	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

221. Vertex: $(4, 1, 3, 4, 4, 0, 1, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - u_{10} - 2 \cdot u_{00} - 2 \cdot u_{21} - 3 \cdot u_{12}$

2	0	3	0
1	0	-8	2
0	2	1	0
$c_T(i,j)$	0	1	2

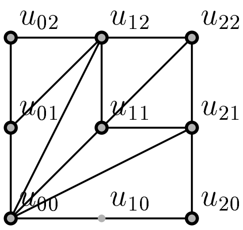
2	0	3	0
1	0	4	2
0	2	1	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
u_{11} + u_{10} &< u_{00} + u_{21}
\end{aligned}$$

222. Vertex: $(4, 2, 0, 5, 4, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-8	2
0	3	0	0
$c_T(i,j)$	0	1	2

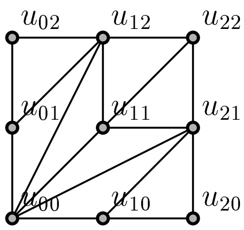
2	0	2	1
1	0	4	2
0	3	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}
$$

223. Vertex: $(4, 1, 2, 4, 4, 2, 2, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-8	2
0	3	0	0
$c_T(i,j)$	0	1	2

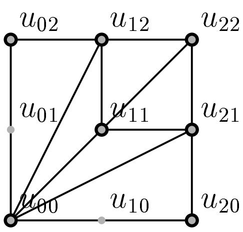
2	0	2	1
1	0	4	2
0	3	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
u_{11} + u_{22} &< u_{21} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

224. Vertex: $(4, 2, 0, 6, 4, 0, 2, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-8	2
0	3	0	0
$c_T(i,j)$	0	1	2

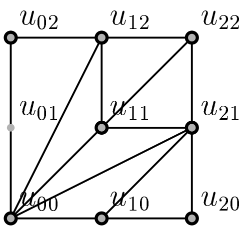
2	0	2	1
1	0	4	2
0	3	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{00} + u_{02} &< 2 \cdot u_{01} \\ u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\ u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ 4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\ u_{11} + u_{22} &< u_{21} + u_{12} \end{aligned}$$

225. Vertex: $(4, 1, 2, 5, 4, 0, 2, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 3 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 3 \cdot u_{00} - 2 \cdot u_{21} - u_{22} - 2 \cdot u_{12}$

2	0	2	1
1	0	-8	2
0	3	0	0
$c_T(i,j)$	0	1	2

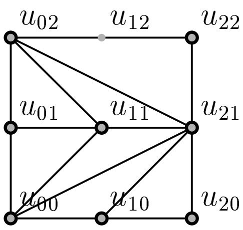
2	0	2	1
1	0	4	2
0	3	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
u_{11} + u_{22} &< u_{21} + u_{12}
\end{aligned}
$$

226. Vertex: $(4, 1, 2, 3, 6, 2, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-8	4
0	2	0	0
$c_T(i,j)$	0	1	2

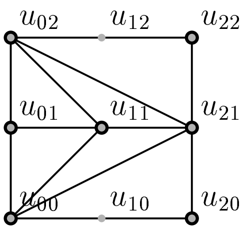
2	2	0	0
1	0	4	4
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl} u_{00} + u_{21} & < & u_{11} + u_{10} \\ 2 \cdot u_{21} + u_{02} & < & 2 \cdot u_{11} + u_{22} \\ 4 \cdot u_{11} & < & 2 \cdot u_{21} + 2 \cdot u_{01} \\ 2 \cdot u_{10} & < & u_{20} + u_{00} \\ u_{22} + u_{02} & < & 2 \cdot u_{12} \\ 2 \cdot u_{01} & < & u_{00} + u_{02} \end{array}$$

227. Vertex: $(4, 2, 0, 4, 6, 2, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-8	4
0	2	0	0
$c_T(i,j)$	0	1	2

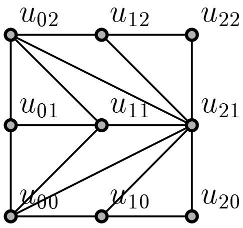
2	2	0	0
1	0	4	4
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

228. Vertex: $(4, 1, 2, 3, 6, 2, 1, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-8	4
0	2	0	0
$c_T(i,j)$	0	1	2

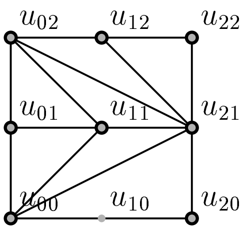
2	2	0	0
1	0	4	4
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}
$$

229. Vertex: $(4, 2, 0, 4, 6, 2, 1, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-8	4
0	2	0	0
$c_T(i,j)$	0	1	2

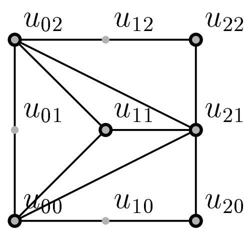
2	2	0	0
1	0	4	4
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

230. Vertex: $(4, 2, 0, 5, 6, 0, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-8	4
0	2	0	0
$c_T(i,j)$	0	1	2

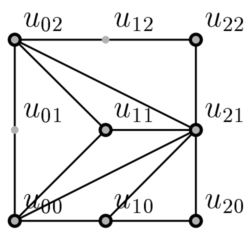
2	2	0	0
1	0	4	4
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\
4 \cdot u_{11} &< u_{00} + 2 \cdot u_{21} + u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{22} + u_{02} &< 2 \cdot u_{12}
\end{aligned}
$$

231. Vertex: $(4, 1, 2, 4, 6, 0, 2, 0, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-8	4
0	2	0	0
$c_T(i,j)$	0	1	2

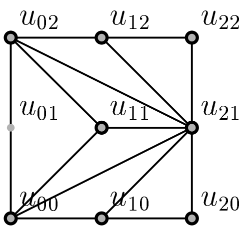
2	2	0	0
1	0	4	4
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{11} &< u_{00} + 2 \cdot u_{21} + u_{02} \\
u_{22} + u_{02} &< 2 \cdot u_{12}
\end{aligned}$$

232. Vertex: $(4, 1, 2, 4, 6, 0, 1, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-8	4
0	2	0	0
$c_T(i,j)$	0	1	2

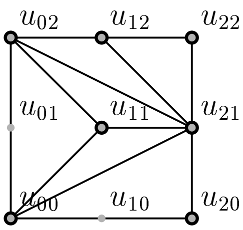
2	2	0	0
1	0	4	4
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
4 \cdot u_{11} &< u_{00} + 2 \cdot u_{21} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00}
\end{aligned}$$

233. Vertex: $(4, 2, 0, 5, 6, 0, 1, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 4 \cdot u_{21} - 2 \cdot u_{02}$

2	2	0	0
1	0	-8	4
0	2	0	0
$c_T(i,j)$	0	1	2

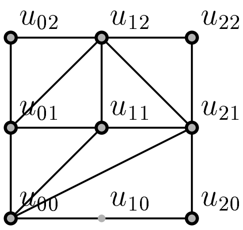
2	2	0	0
1	0	4	4
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
4 \cdot u_{11} &< u_{00} + 2 \cdot u_{21} + u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10}
\end{aligned}$$

234. Vertex: $(4,2,0,4,5,3,1,4,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

2	0	2	0
1	1	-8	3
0	2	0	0
$c_T(i,j)$	0	1	2

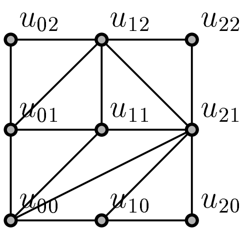
2	0	2	0
1	1	4	3
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{01} + u_{12} &< u_{11} + u_{02}
\end{aligned}$$

235. Vertex: $(4, 1, 2, 3, 5, 3, 1, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 3 \cdot u_{21} - u_{01} - 2 \cdot u_{12}$

2	0	2	0
1	1	-8	3
0	2	0	0
$c_T(i,j)$	0	1	2

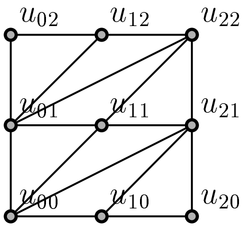
2	0	2	0
1	1	4	3
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
u_{11} + u_{01} &< u_{00} + u_{12} \\
u_{01} + u_{12} &< u_{11} + u_{02}
\end{aligned}$$

236. Vertex: $(4, 1, 2, 3, 4, 4, 3, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	2	-8	2
0	2	0	0
$c_T(i,j)$	0	1	2

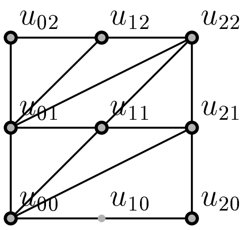
2	0	0	2
1	2	4	2
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
u_{01} + u_{22} &< u_{11} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02}
\end{aligned}
$$

237. Vertex: $(4, 2, 0, 4, 4, 4, 3, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	2	-8	2
0	2	0	0
$c_T(i,j)$	0	1	2

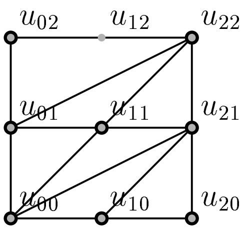
2	0	0	2
1	2	4	2
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
u_{01} + u_{22} &< u_{11} + u_{12} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

238. Vertex: $(4, 1, 2, 3, 4, 4, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	2	-8	2
0	2	0	0
$c_T(i,j)$	0	1	2

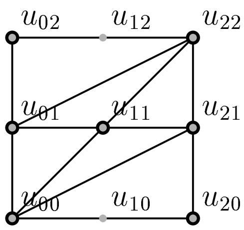
2	0	0	2
1	2	4	2
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

239. Vertex: $(4,2,0,4,4,4,4,0,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $8 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{22}$

The generic valuation of the j-invariant is: $8 \cdot u_{11} - 2 \cdot u_{00} - 2 \cdot u_{21} - 2 \cdot u_{01} - 2 \cdot u_{22}$

2	0	0	2
1	2	-8	2
0	2	0	0
$c_T(i,j)$	0	1	2

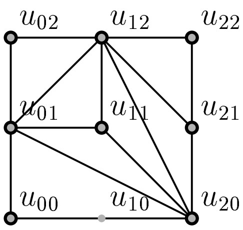
2	0	0	2
1	2	4	2
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{11} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02} \\
4 \cdot u_{11} &< 2 \cdot u_{21} + 2 \cdot u_{01}
\end{aligned}$$

240. Vertex: $(3, 5, 0, 2, 2, 5, 1, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

2	0	3	0
1	3	-9	0
0	0	0	3
$c_T(i,j)$	0	1	2

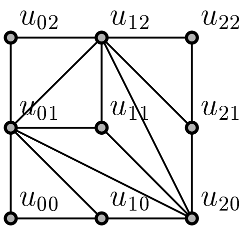
2	0	3	0
1	3	3	0
0	0	0	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
3 \cdot u_{11} &< u_{20} + u_{01} + u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{01} + u_{12} &< u_{11} + u_{02}
\end{aligned}$$

241. Vertex: $(3, 4, 2, 1, 2, 5, 1, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

2	0	3	0
1	3	-9	0
0	0	0	3
$c_T(i,j)$	0	1	2

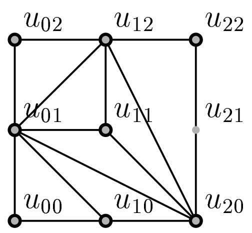
2	0	3	0
1	3	3	0
0	0	0	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{20} + u_{12} &< u_{11} + u_{21} \\
u_{20} + u_{01} &< u_{11} + u_{10} \\
3 \cdot u_{11} &< u_{20} + u_{01} + u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{01} + u_{12} &< u_{11} + u_{02}
\end{aligned}
$$

242. Vertex: $(3, 5, 2, 1, 0, 5, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

2	0	3	0
1	3	-9	0
0	0	0	3
$c_T(i,j)$	0	1	2

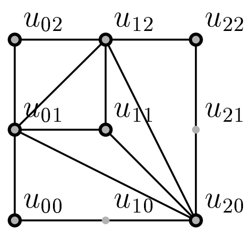
2	0	3	0
1	3	3	0
0	0	0	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\ u_{20} + u_{01} &< u_{11} + u_{10} \\ 3 \cdot u_{11} &< u_{20} + u_{01} + u_{12} \\ u_{20} + u_{22} &< 2 \cdot u_{21} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ u_{01} + u_{12} &< u_{11} + u_{02} \end{aligned}$$

243. Vertex: $(3, 6, 0, 2, 0, 5, 2, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{20} - 3 \cdot u_{01} - 3 \cdot u_{12}$

2	0	3	0
1	3	-9	0
0	0	0	3
$c_T(i,j)$	0	1	2

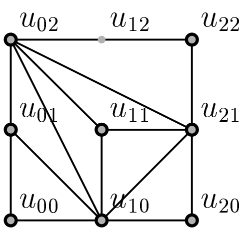
2	0	3	0
1	3	3	0
0	0	0	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{22} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{11} + u_{00} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{11} &< u_{20} + u_{01} + u_{12} \\
u_{01} + u_{12} &< u_{11} + u_{02}
\end{aligned}$$

244. Vertex: $(3,1,5,1,5,2,2,0,5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

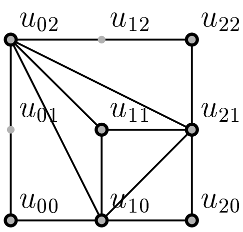
$$\begin{array}{c|ccc} 2 & 3 & 0 & 0 \\ 1 & 0 & -9 & 3 \\ 0 & 0 & 3 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 3 & 0 & 0 \\ 1 & 0 & 3 & 3 \\ 0 & 0 & 3 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{10} + u_{02} &< u_{11} + u_{01} \\ u_{10} + u_{21} &< u_{11} + u_{20} \\ 2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 3 \cdot u_{11} &< u_{10} + u_{21} + u_{02} \\ u_{22} + u_{02} &< 2 \cdot u_{12} \end{aligned}$$

245. Vertex: $(3, 1, 5, 2, 5, 0, 2, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

2	3	0	0
1	0	-9	3
0	0	3	0
$c_T(i,j)$	0	1	2

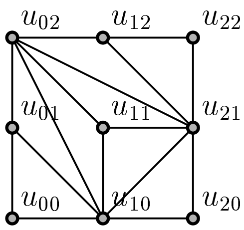
2	3	0	0
1	0	3	3
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{21} + u_{02} &< 2 \cdot u_{11} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{11} &< u_{10} + u_{21} + u_{02} \\
u_{22} + u_{02} &< 2 \cdot u_{12}
\end{aligned}$$

246. Vertex: $(3, 1, 5, 1, 5, 2, 1, 2, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

2	3	0	0
1	0	-9	3
0	0	3	0
$c_T(i,j)$	0	1	2

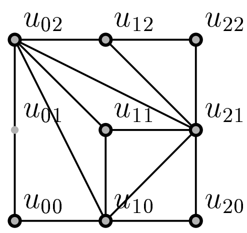
2	3	0	0
1	0	3	3
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{10} + u_{02} &< u_{11} + u_{01} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ u_{10} + u_{21} &< u_{11} + u_{20} \\ u_{21} + u_{02} &< u_{11} + u_{12} \\ 3 \cdot u_{11} &< u_{10} + u_{21} + u_{02} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \end{aligned}$$

247. Vertex: $(3, 1, 5, 2, 5, 0, 1, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{21} - 3 \cdot u_{02}$

2	3	0	0
1	0	-9	3
0	0	3	0
$c_T(i,j)$	0	1	2

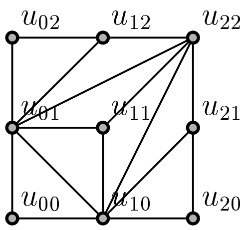
2	3	0	0
1	0	3	3
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< 2 \cdot u_{11} + u_{00} \\
u_{21} + u_{02} &< u_{11} + u_{12} \\
u_{10} + u_{21} &< u_{11} + u_{20} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{11} &< u_{10} + u_{21} + u_{02}
\end{aligned}$$

248. Vertex: $(3, 1, 5, 1, 2, 5, 4, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{01} - 3 \cdot u_{22}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{01} - 3 \cdot u_{22}$

2	0	0	3
1	3	-9	0
0	0	3	0
$c_T(i,j)$	0	1	2

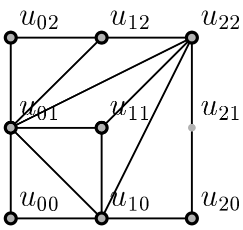
2	0	0	3
1	3	3	0
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{10} + u_{22} &< u_{11} + u_{21} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{01} + u_{22} &< u_{11} + u_{12} \\
3 \cdot u_{11} &< u_{10} + u_{01} + u_{22} \\
2 \cdot u_{12} &< u_{22} + u_{02}
\end{aligned}$$

249. Vertex: $(3, 2, 5, 1, 0, 5, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{01} - 3 \cdot u_{22}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{01} - 3 \cdot u_{22}$

2	0	0	3
1	3	-9	0
0	0	3	0
$c_T(i,j)$	0	1	2

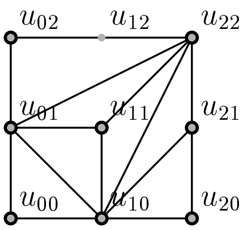
2	0	0	3
1	3	3	0
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
3 \cdot u_{11} &< u_{10} + u_{01} + u_{22} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{01} + u_{22} &< u_{11} + u_{12}
\end{aligned}$$

250. Vertex: $(3, 1, 5, 1, 2, 5, 5, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{01} - 3 \cdot u_{22}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{01} - 3 \cdot u_{22}$

2	0	0	3
1	3	-9	0
0	0	3	0
$c_T(i,j)$	0	1	2

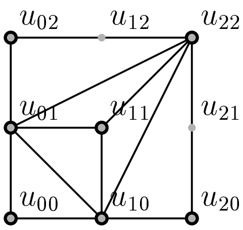
2	0	0	3
1	3	3	0
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + u_{01} &< u_{11} + u_{00} \\
u_{10} + u_{22} &< u_{11} + u_{21} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
3 \cdot u_{11} &< u_{10} + u_{01} + u_{22} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02}
\end{aligned}$$

251. Vertex: $(3, 2, 5, 1, 0, 5, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{01} - 3 \cdot u_{22}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{10} - 3 \cdot u_{01} - 3 \cdot u_{22}$

2	0	0	3
1	3	-9	0
0	0	3	0
$c_T(i,j)$	0	1	2

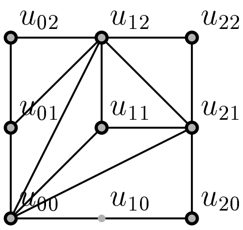
2	0	0	3
1	3	3	0
0	0	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{10} + u_{01} &< u_{11} + u_{00} \\
2 \cdot u_{10} + u_{22} &< 2 \cdot u_{11} + u_{20} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
3 \cdot u_{11} &< u_{10} + u_{01} + u_{22} \\
2 \cdot u_{01} + u_{22} &< 2 \cdot u_{11} + u_{02}
\end{aligned}$$

252. Vertex: $(3, 2, 0, 5, 5, 2, 1, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

2	0	3	0
1	0	-9	3
0	3	0	0
$c_T(i,j)$	0	1	2

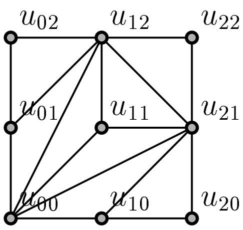
2	0	3	0
1	0	3	3
0	3	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

253. Vertex: $(3,1,2,4,5,2,1,5,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

2	0	3	0
1	0	-9	3
0	3	0	0
$c_T(i,j)$	0	1	2

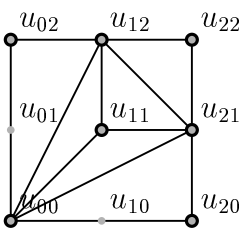
2	0	3	0
1	0	3	3
0	3	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + u_{12} &< u_{11} + u_{01} \\
u_{00} + u_{21} &< u_{11} + u_{10} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

254. Vertex: $(3, 2, 0, 6, 5, 0, 1, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

2	0	3	0
1	0	-9	3
0	3	0	0
$c_T(i,j)$	0	1	2

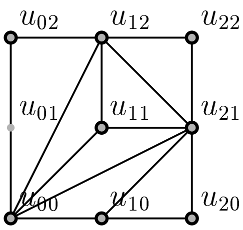
2	0	3	0
1	0	3	3
0	3	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{11} + u_{20} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12}
\end{aligned}$$

255. Vertex: $(3, 1, 2, 5, 5, 0, 1, 5, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

The generic valuation of the j-invariant is: $9 \cdot u_{11} - 3 \cdot u_{00} - 3 \cdot u_{21} - 3 \cdot u_{12}$

2	0	3	0
1	0	-9	3
0	3	0	0
$c_T(i,j)$	0	1	2

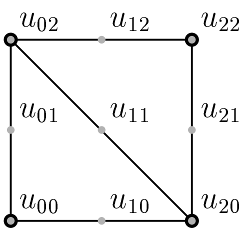
2	0	3	0
1	0	3	3
0	3	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{21} &< u_{11} + u_{10} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{21} + u_{12} &< u_{11} + u_{22} \\
3 \cdot u_{11} &< u_{00} + u_{21} + u_{12} \\
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{11} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00}
\end{aligned}$$

256. Vertex: $(0,8,0,4,0,0,4,0,8)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{20} + u_{00} + u_{22} + 5 \cdot u_{02}$

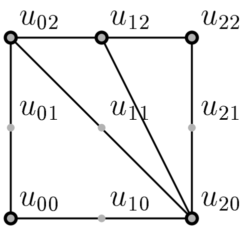
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 5 & 0 & 1 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 5 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl} 4 \cdot u_{20} + 4 \cdot u_{02} & < & 8 \cdot u_{11} \\ 4 \cdot u_{20} + 4 \cdot u_{02} & < & 4 \cdot u_{00} + 4 \cdot u_{22} \\ 2 \cdot u_{00} + 2 \cdot u_{02} & < & 4 \cdot u_{01} \\ 2 \cdot u_{20} + 2 \cdot u_{22} & < & 4 \cdot u_{21} \\ 2 \cdot u_{20} + 2 \cdot u_{00} & < & 4 \cdot u_{10} \\ 2 \cdot u_{22} + 2 \cdot u_{02} & < & 4 \cdot u_{12} \end{array}$$

257. Vertex: $(0, 8, 0, 4, 0, 0, 2, 4, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{20} + u_{00} + 2 \cdot u_{12} + 4 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

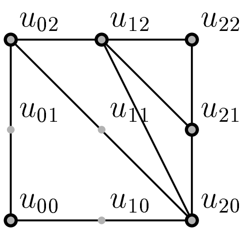
2	4	2	0
1	0	0	0
0	1	0	5
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
4 \cdot u_{12} &< 2 \cdot u_{22} + 2 \cdot u_{02} \\
2 \cdot u_{20} + 4 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{12} \\
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
u_{20} + u_{22} &< 2 \cdot u_{21}
\end{aligned}$$

258. Vertex: $(0, 7, 0, 4, 2, 0, 1, 4, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{20} + u_{00} + 2 \cdot u_{12} + 4 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

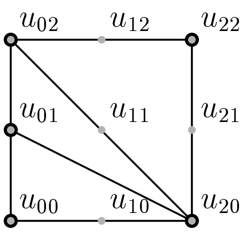
2	4	2	0
1	0	0	0
0	1	0	5
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{21} + u_{02} \\
2 \cdot u_{20} + 4 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10}
\end{aligned}$$

259. Vertex: $(0, 8, 0, 2, 0, 4, 4, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{20} + 2 \cdot u_{01} + u_{22} + 4 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

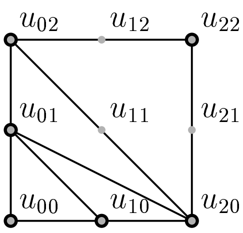
2	4	0	1
1	2	0	0
0	0	0	5
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 4 \cdot u_{02} &< 4 \cdot u_{01} + 2 \cdot u_{22} \\
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{20} + 2 \cdot u_{22} &< 4 \cdot u_{21} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
2 \cdot u_{22} + 2 \cdot u_{02} &< 4 \cdot u_{12}
\end{aligned}$$

260. Vertex: $(0,7,2,1,0,4,4,0,6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{20} + 2 \cdot u_{01} + u_{22} + 4 \cdot u_{02}$

$c_T(i,j)$	0	1	2
2	0	0	0
1	0	0	0
0	0	0	0

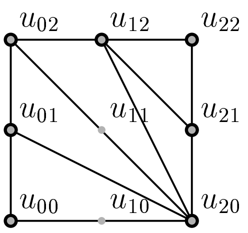
$\eta_T(i,j)$	0	1	2
2	4	0	1
1	2	0	0
0	0	0	5

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 4 \cdot u_{02} &< 4 \cdot u_{01} + 2 \cdot u_{22} \\
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{22} + 2 \cdot u_{02} &< 4 \cdot u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{22} &< 4 \cdot u_{21} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

261. Vertex: $(0,7,0,2,2,4,1,4,4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{12} + 3 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

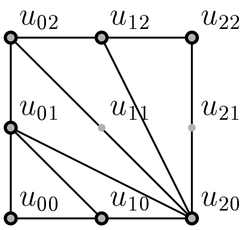
2	3	2	0
1	2	0	0
0	0	0	5
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{21} + u_{02} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02}
\end{aligned}$$

262. Vertex: $(0, 7, 2, 1, 0, 4, 2, 4, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{12} + 3 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

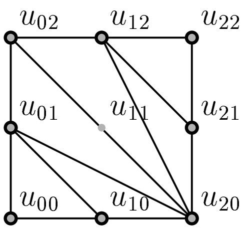
2	3	2	0
1	2	0	0
0	0	0	5
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{22} + 2 \cdot u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

263. Vertex: $(0, 6, 2, 1, 2, 4, 1, 4, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{12} + 3 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

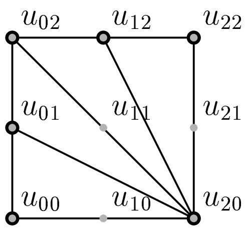
2	3	2	0
1	2	0	0
0	0	0	5
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{21} + u_{02} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

264. Vertex: $(0, 8, 0, 2, 0, 4, 2, 4, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $\quad 0$

The generic valuation of Δ is: $\quad 5 \cdot u_{20} + 2 \cdot u_{01} + 2 \cdot u_{12} + 3 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

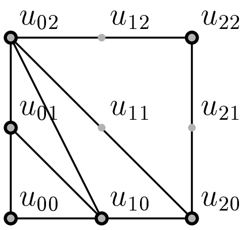
2	3	2	0
1	2	0	0
0	0	0	5
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 3 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
4 \cdot u_{12} &< 2 \cdot u_{22} + 2 \cdot u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02}
\end{aligned}$$

265. Vertex: $(0,6,4,1,0,2,4,0,7)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{20} + 2 \cdot u_{10} + u_{22} + 5 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

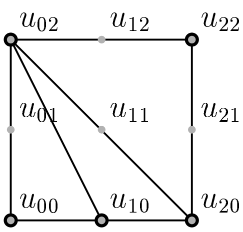
2	5	0	1
1	0	0	0
0	0	2	4
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
4 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{10} + 2 \cdot u_{22} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{22} &< 4 \cdot u_{21} \\
2 \cdot u_{22} + 2 \cdot u_{02} &< 4 \cdot u_{12}
\end{aligned}$$

266. Vertex: $(0,6,4,2,0,0,4,0,8)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{20} + 2 \cdot u_{10} + u_{22} + 5 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

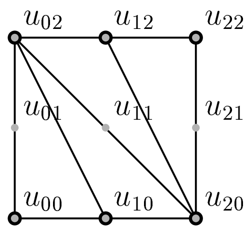
2	5	0	1
1	0	0	0
0	0	2	4
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{22} &< 4 \cdot u_{21} \\
4 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{10} + 2 \cdot u_{22} \\
2 \cdot u_{22} + 2 \cdot u_{02} &< 4 \cdot u_{12}
\end{aligned}$$

267. Vertex: $(0, 6, 4, 2, 0, 0, 2, 4, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{12} + 4 \cdot u_{02}$

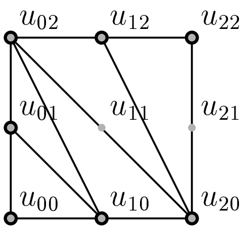
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 4 & 2 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 2 & 4 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl} 2 \cdot u_{20} + 2 \cdot u_{02} & < & 4 \cdot u_{11} \\ 4 \cdot u_{12} & < & 2 \cdot u_{22} + 2 \cdot u_{02} \\ 2 \cdot u_{20} + 2 \cdot u_{02} & < & 2 \cdot u_{10} + 2 \cdot u_{12} \\ u_{00} + u_{02} & < & 2 \cdot u_{01} \\ 4 \cdot u_{10} & < & 2 \cdot u_{20} + 2 \cdot u_{00} \\ u_{20} + u_{22} & < & 2 \cdot u_{21} \end{array}$$

268. Vertex: $(0,6,4,1,0,2,2,4,5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $\quad 0$

The generic valuation of Δ is: $\quad 4 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{12} + 4 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

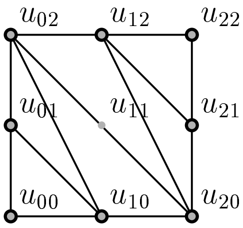
2	4	2	0
1	0	0	0
0	0	2	4
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{12} &< 2 \cdot u_{22} + 2 \cdot u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{20} + u_{22} &< 2 \cdot u_{21}
\end{aligned}$$

269. Vertex: $(0, 5, 4, 1, 2, 2, 1, 4, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{12} + 4 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

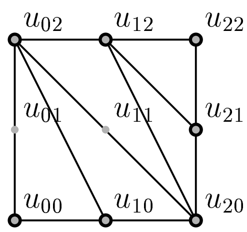
2	4	2	0
1	0	0	0
0	0	2	4
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{21} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

270. Vertex: $(0, 5, 4, 2, 2, 0, 1, 4, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $\quad 0$

The generic valuation of Δ is: $\quad 4 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{12} + 4 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

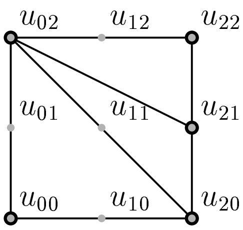
2	4	2	0
1	0	0	0
0	0	2	4
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{21} + u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00}
\end{aligned}$$

271. Vertex: $(0, 6, 0, 4, 4, 0, 2, 0, 8)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{20} + u_{00} + 2 \cdot u_{21} + 5 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

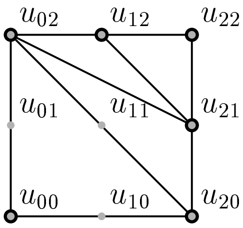
2	5	0	0
1	0	0	2
0	1	0	4
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\
4 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{21} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
u_{22} + u_{02} &< 2 \cdot u_{12}
\end{aligned}$$

272. Vertex: $(0,6,0,4,4,0,1,2,7)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{20} + u_{00} + 2 \cdot u_{21} + 5 \cdot u_{02}$

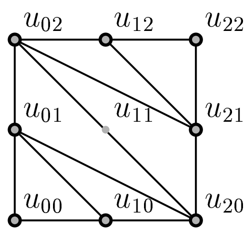
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 5 & 0 & 0 \\ 1 & 0 & 0 & 2 \\ 0 & 1 & 0 & 4 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 3 \cdot u_{20} + 3 \cdot u_{02} &< 6 \cdot u_{11} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ 4 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{21} \\ 2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\ 2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\ 2 \cdot u_{21} + u_{02} &< u_{20} + 2 \cdot u_{12} \end{aligned}$$

273. Vertex: $(0,5,2,1,4,4,1,2,5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{20} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{02}$

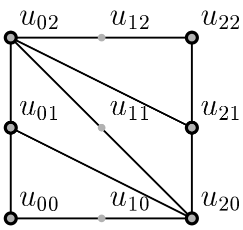
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 4 & 0 & 0 \\ 1 & 2 & 0 & 2 \\ 0 & 0 & 0 & 4 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\ 2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ 2 \cdot u_{21} + u_{02} &< u_{20} + 2 \cdot u_{12} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02} \end{aligned}$$

274. Vertex: $(0,6,0,2,4,4,2,0,6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{20} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

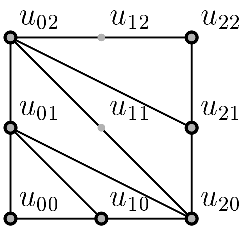
2	4	0	0
1	2	0	2
0	0	0	4
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
u_{22} + u_{02} &< 2 \cdot u_{12}
\end{aligned}$$

275. Vertex: $(0, 5, 2, 1, 4, 4, 2, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{20} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

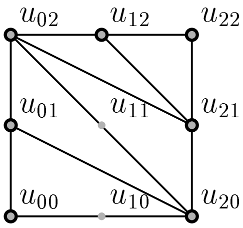
2	4	0	0
1	2	0	2
0	0	0	4
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{10} + u_{02}
\end{aligned}$$

276. Vertex: $(0, 6, 0, 2, 4, 4, 1, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{20} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

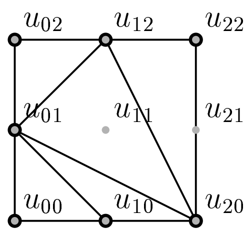
2	4	0	0
1	2	0	2
0	0	0	4
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
2 \cdot u_{21} + u_{02} &< u_{20} + 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02}
\end{aligned}$$

277. Vertex: $(0, 6, 2, 1, 0, 6, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $\quad 0$

The generic valuation of Δ is: $\quad 4 \cdot u_{20} + 4 \cdot u_{01} + 4 \cdot u_{12}$

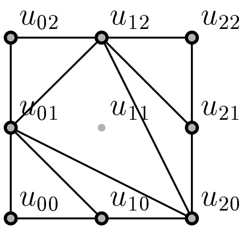
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 4 & 0 \\ 1 & 4 & 0 & 0 \\ 0 & 0 & 0 & 4 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl} u_{20} + 4 \cdot u_{12} & < & 2 \cdot u_{01} + 3 \cdot u_{22} \\ u_{20} + u_{22} & < & 2 \cdot u_{21} \\ u_{20} + u_{01} + u_{12} & < & 3 \cdot u_{11} \\ 2 \cdot u_{20} + 2 \cdot u_{01} & < & 3 \cdot u_{10} + u_{12} \\ 2 \cdot u_{10} & < & u_{20} + u_{00} \\ 2 \cdot u_{01} + 2 \cdot u_{12} & < & u_{20} + 3 \cdot u_{02} \end{array}$$

278. Vertex: $(0, 5, 2, 1, 2, 6, 1, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{20} + 4 \cdot u_{01} + 4 \cdot u_{12}$

$c_T(i,j)$			
2	0	0	0
1	0	0	0
0	0	0	0
	0	1	2

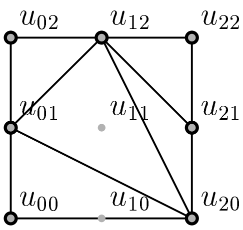
$\eta_T(i,j)$			
2	0	4	0
1	4	0	0
0	0	0	4
	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{12} &< 3 \cdot u_{21} + u_{01} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{20} + u_{01} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 3 \cdot u_{10} + u_{12} \\
2 \cdot u_{01} + 2 \cdot u_{12} &< u_{20} + 3 \cdot u_{02}
\end{aligned}$$

279. Vertex: $(0, 6, 0, 2, 2, 6, 1, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{20} + 4 \cdot u_{01} + 4 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

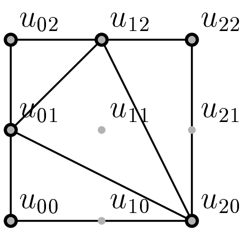
2	0	4	0
1	4	0	0
0	0	0	4
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{12} &< 3 \cdot u_{21} + u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{20} + u_{01} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{20} + 4 \cdot u_{01} &< 3 \cdot u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{01} + 2 \cdot u_{12} &< u_{20} + 3 \cdot u_{02}
\end{aligned}$$

280. Vertex: $(0, 7, 0, 2, 0, 6, 2, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{20} + 4 \cdot u_{01} + 4 \cdot u_{12}$

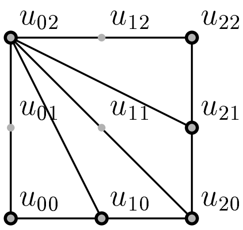
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 4 & 0 \\ 1 & 4 & 0 & 0 \\ 0 & 0 & 0 & 4 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + 4 \cdot u_{12} &< 2 \cdot u_{01} + 3 \cdot u_{22} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ u_{20} + u_{22} &< 2 \cdot u_{21} \\ u_{20} + 4 \cdot u_{01} &< 3 \cdot u_{00} + 2 \cdot u_{12} \\ u_{20} + u_{01} + u_{12} &< 3 \cdot u_{11} \\ 2 \cdot u_{01} + 2 \cdot u_{12} &< u_{20} + 3 \cdot u_{02} \end{aligned}$$

281. Vertex: $(0, 4, 4, 2, 4, 0, 2, 0, 8)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{21} + 5 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

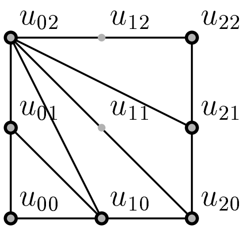
2	5	0	0
1	0	0	2
0	0	2	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{21} \\
u_{22} + u_{02} &< 2 \cdot u_{12}
\end{aligned}$$

282. Vertex: $(0, 4, 4, 1, 4, 2, 2, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{21} + 5 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

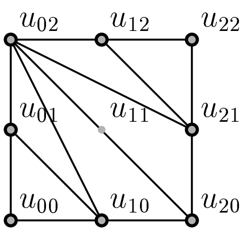
2	5	0	0
1	0	0	2
0	0	2	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{21} \\
u_{22} + u_{02} &< 2 \cdot u_{12}
\end{aligned}$$

283. Vertex: $(0,4,4,1,4,2,1,2,6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{21} + 5 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

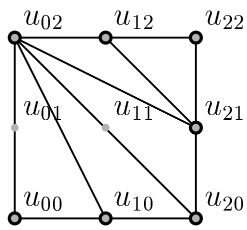
2	5	0	0
1	0	0	2
0	0	2	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + u_{02} &< u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{21} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{21} + u_{02} &< u_{20} + 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

284. Vertex: $(0,4,4,2,4,0,1,2,7)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{21} + 5 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

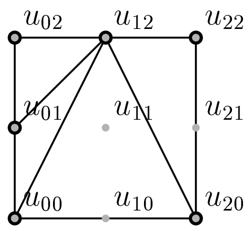
2	5	0	0
1	0	0	2
0	0	2	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 2 \cdot u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{20} + u_{02} &< 2 \cdot u_{10} + 2 \cdot u_{21} \\
2 \cdot u_{21} + u_{02} &< u_{20} + 2 \cdot u_{12}
\end{aligned}$$

285. Vertex: $(0, 6, 0, 5, 0, 2, 2, 8, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{20} + 3 \cdot u_{00} + 6 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

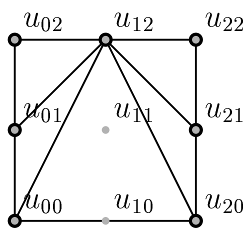
2	0	6	0
1	0	0	0
0	3	0	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 4 \cdot u_{12} &< 2 \cdot u_{00} + 4 \cdot u_{22} \\
u_{20} + u_{00} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
3 \cdot u_{00} + 2 \cdot u_{12} &< u_{20} + 4 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

286. Vertex: $(0,5,0,5,2,2,1,8,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{20} + 3 \cdot u_{00} + 6 \cdot u_{12}$

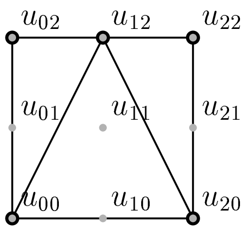
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 6 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 3 & 0 & 3 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + u_{00} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\ 3 \cdot u_{00} + 2 \cdot u_{12} &< u_{20} + 4 \cdot u_{01} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 3 \cdot u_{20} + 2 \cdot u_{12} &< u_{00} + 4 \cdot u_{21} \\ 2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \end{aligned}$$

287. Vertex: $(0, 6, 0, 6, 0, 0, 2, 8, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{20} + 3 \cdot u_{00} + 6 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

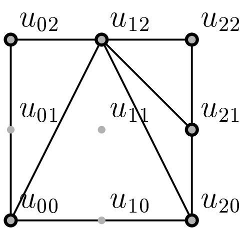
2	0	6	0
1	0	0	0
0	3	0	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{20} + 4 \cdot u_{12} &< 2 \cdot u_{00} + 4 \cdot u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + 4 \cdot u_{12} &< 2 \cdot u_{20} + 4 \cdot u_{02}
\end{aligned}$$

288. Vertex: $(0, 5, 0, 6, 2, 0, 1, 8, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{20} + 3 \cdot u_{00} + 6 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

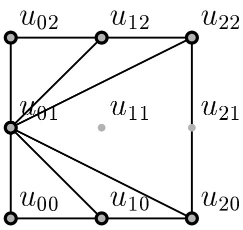
2	0	6	0
1	0	0	0
0	3	0	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
3 \cdot u_{20} + 2 \cdot u_{12} &< u_{00} + 4 \cdot u_{21} \\
2 \cdot u_{00} + 4 \cdot u_{12} &< 2 \cdot u_{20} + 4 \cdot u_{02}
\end{aligned}
$$

289. Vertex: $(0,5,2,1,0,8,5,2,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{20} + 6 \cdot u_{01} + 3 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

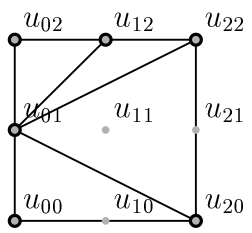
2	0	0	3
1	6	0	0
0	0	0	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} + u_{22} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + 2 \cdot u_{22} &< 4 \cdot u_{21} \\
3 \cdot u_{20} + 2 \cdot u_{01} &< 4 \cdot u_{10} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{01} + 3 \cdot u_{22} &< u_{20} + 4 \cdot u_{12}
\end{aligned}$$

290. Vertex: $(0,6,0,2,0,8,5,2,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{20} + 6 \cdot u_{01} + 3 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

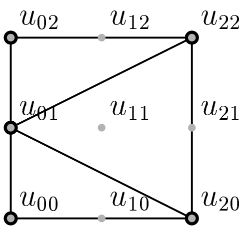
2	0	0	3
1	6	0	0
0	0	0	3
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{20} + 2 \cdot u_{01} + u_{22} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + 4 \cdot u_{01} &< 4 \cdot u_{00} + 2 \cdot u_{22} \\
2 \cdot u_{20} + 2 \cdot u_{22} &< 4 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{01} + 3 \cdot u_{22} &< u_{20} + 4 \cdot u_{12}
\end{aligned}$$

291. Vertex: $(0,6,0,2,0,8,6,0,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{20} + 6 \cdot u_{01} + 3 \cdot u_{22}$

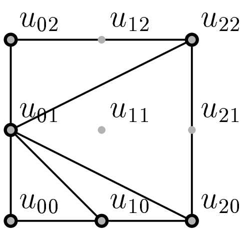
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 0 & 3 \\ 1 & 6 & 0 & 0 \\ 0 & 0 & 0 & 3 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{20} + 2 \cdot u_{01} + u_{22} &< 4 \cdot u_{11} \\ 2 \cdot u_{20} + 2 \cdot u_{22} &< 4 \cdot u_{21} \\ 2 \cdot u_{20} + 4 \cdot u_{01} &< 4 \cdot u_{00} + 2 \cdot u_{22} \\ u_{22} + u_{02} &< 2 \cdot u_{12} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ 4 \cdot u_{01} + 2 \cdot u_{22} &< 2 \cdot u_{20} + 4 \cdot u_{02} \end{aligned}$$

292. Vertex: $(0,5,2,1,0,8,6,0,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{20} + 6 \cdot u_{01} + 3 \cdot u_{22}$

$c_T(i,j)$			
2	0	0	0
1	0	0	0
0	0	0	0
	0	1	2

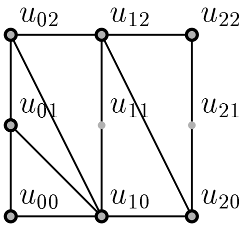
$\eta_T(i,j)$			
2	0	0	3
1	6	0	0
0	0	0	3
	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{22} &< 4 \cdot u_{21} \\
u_{20} + 2 \cdot u_{01} + u_{22} &< 4 \cdot u_{11} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
3 \cdot u_{20} + 2 \cdot u_{01} &< 4 \cdot u_{10} + u_{22} \\
4 \cdot u_{01} + 2 \cdot u_{22} &< 2 \cdot u_{20} + 4 \cdot u_{02}
\end{aligned}$$

293. Vertex: $(0, 4, 6, 1, 0, 2, 2, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{12} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

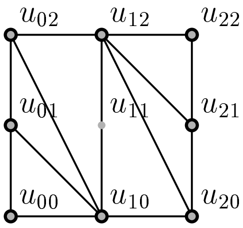
2	2	4	0
1	0	0	0
0	0	4	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{01} + u_{12} \\ 2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\ 2 \cdot u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{22} \\ u_{20} + u_{22} &< 2 \cdot u_{21} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{02} \end{aligned}$$

294. Vertex: $(0, 3, 6, 1, 2, 2, 1, 6, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{12} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

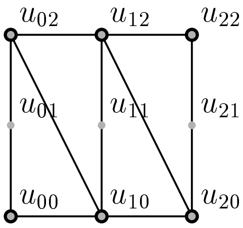
2	2	4	0
1	0	0	0
0	0	4	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{01} + u_{12} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

295. Vertex: $(0, 4, 6, 2, 0, 0, 2, 6, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{12} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

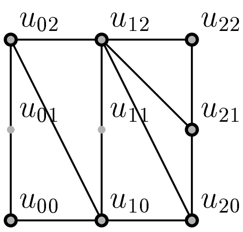
2	2	4	0
1	0	0	0
0	0	4	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{22} \\
u_{20} + u_{22} &< 2 \cdot u_{21}
\end{aligned}$$

296. Vertex: $(0, 3, 6, 2, 2, 0, 1, 6, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 4 \cdot u_{10} + 4 \cdot u_{12} + 2 \cdot u_{02}$

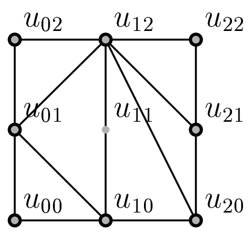
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 2 & 4 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 4 & 2 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\ 2 \cdot u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\ u_{00} + u_{02} &< 2 \cdot u_{01} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21} \\ 2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{02} \end{aligned}$$

297. Vertex: $(0,3,5,1,2,4,1,7,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 3 \cdot u_{10} + 2 \cdot u_{01} + 5 \cdot u_{12}$

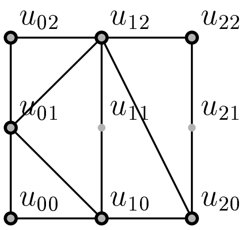
$$\begin{array}{c|ccc}
2 & 0 & 0 & 0 \\
1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
\hline
c_T(i,j) & 0 & 1 & 2
\end{array}
\qquad
\begin{array}{c|ccc}
2 & 0 & 5 & 0 \\
1 & 2 & 0 & 0 \\
0 & 0 & 3 & 2 \\
\hline
\eta_T(i,j) & 0 & 1 & 2
\end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12} \\
2 \cdot u_{01} + u_{12} &< u_{10} + 2 \cdot u_{02}
\end{aligned}$$

298. Vertex: $(0,4,5,1,0,4,2,7,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 3 \cdot u_{10} + 2 \cdot u_{01} + 5 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

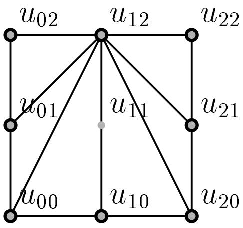
2	0	5	0
1	2	0	0
0	0	3	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{22} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12} \\
2 \cdot u_{01} + u_{12} &< u_{10} + 2 \cdot u_{02}
\end{aligned}$$

299. Vertex: $(0,3,4,3,2,2,1,8,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

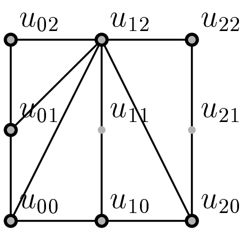
2	0	6	0
1	0	0	0
0	2	2	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

300. Vertex: $(0,4,4,3,0,2,2,8,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

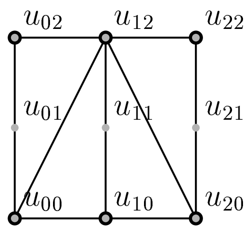
2	0	6	0
1	0	0	0
0	2	2	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{22} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}
$$

301. Vertex: $(0,4,4,4,0,0,2,8,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

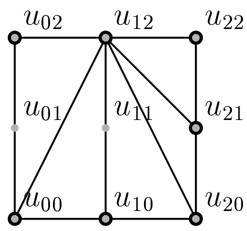
2	0	6	0
1	0	0	0
0	2	2	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{20} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{22} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{02}
\end{aligned}
$$

302. Vertex: $(0, 3, 4, 4, 2, 0, 1, 8, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 2 \cdot u_{10} + 2 \cdot u_{00} + 6 \cdot u_{12}$

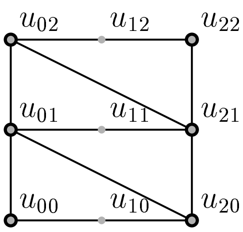
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 6 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 2 & 2 & 2 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\ u_{00} + u_{02} &< 2 \cdot u_{01} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 2 \cdot u_{20} + u_{12} &< u_{10} + 2 \cdot u_{21} \\ 4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\ 2 \cdot u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{02} \end{aligned}$$

303. Vertex: $(0, 4, 0, 2, 6, 6, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

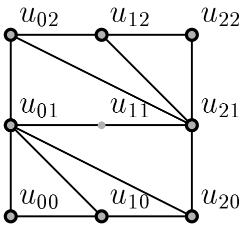
2	2	0	0
1	4	0	4
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{22} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{21} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

304. Vertex: $(0, 3, 2, 1, 6, 6, 1, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

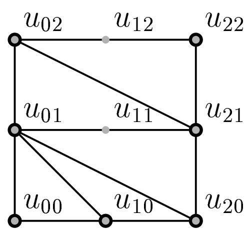
2	2	0	0
1	4	0	4
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{20} + u_{01} &< 2 \cdot u_{10} + u_{21} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{20} + 2 \cdot u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11}
\end{aligned}$$

305. Vertex: $(0,3,2,1,6,6,2,0,4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

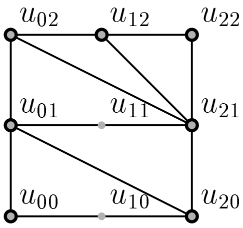
2	2	0	0
1	4	0	4
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{20} + u_{01} &< 2 \cdot u_{10} + u_{21} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

306. Vertex: $(0,4,0,2,6,6,1,2,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

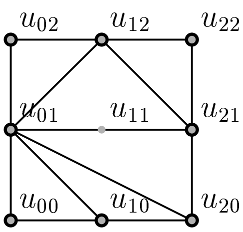
2	2	0	0
1	4	0	4
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{21} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{20} + 2 \cdot u_{02}
\end{aligned}$$

307. Vertex: $(0, 3, 2, 1, 5, 7, 1, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{12}$

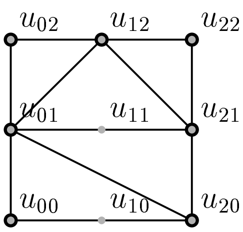
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 2 & 0 \\ 1 & 5 & 0 & 3 \\ 0 & 0 & 0 & 2 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl} u_{21} + 2 \cdot u_{12} & < & u_{01} + 2 \cdot u_{22} \\ 2 \cdot u_{20} + u_{01} & < & 2 \cdot u_{10} + u_{21} \\ 2 \cdot u_{21} + 2 \cdot u_{01} & < & 4 \cdot u_{11} \\ 2 \cdot u_{10} & < & u_{20} + u_{00} \\ 3 \cdot u_{21} + u_{01} & < & 2 \cdot u_{20} + 2 \cdot u_{12} \\ u_{01} + 2 \cdot u_{12} & < & u_{21} + 2 \cdot u_{02} \end{array}$$

308. Vertex: $(0,4,0,2,5,7,1,4,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{12}$

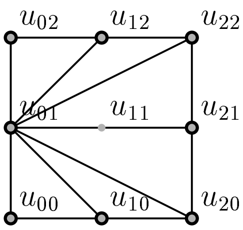
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 2 & 0 \\ 1 & 5 & 0 & 3 \\ 0 & 0 & 0 & 2 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{21} + 2 \cdot u_{12} &< u_{01} + 2 \cdot u_{22} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ 2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\ 2 \cdot u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{21} \\ 3 \cdot u_{21} + u_{01} &< 2 \cdot u_{20} + 2 \cdot u_{12} \\ u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02} \end{aligned}$$

309. Vertex: $(0, 3, 2, 1, 4, 8, 3, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 2 \cdot u_{21} + 6 \cdot u_{01} + 2 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

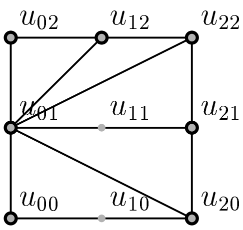
2	0	0	2
1	6	0	2
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + u_{01} &< 2 \cdot u_{10} + u_{21} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\
u_{01} + 2 \cdot u_{22} &< u_{21} + 2 \cdot u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02}
\end{aligned}$$

310. Vertex: $(0,4,0,2,4,8,3,2,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 2 \cdot u_{21} + 6 \cdot u_{01} + 2 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

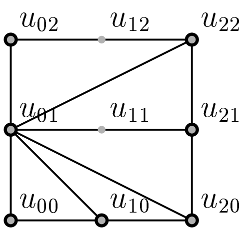
2	0	0	2
1	6	0	2
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{21} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\
u_{01} + 2 \cdot u_{22} &< u_{21} + 2 \cdot u_{12}
\end{aligned}
$$

311. Vertex: $(0, 3, 2, 1, 4, 8, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 2 \cdot u_{21} + 6 \cdot u_{01} + 2 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

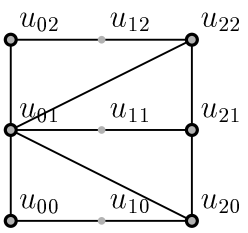
2	0	0	2
1	6	0	2
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{22} + u_{02} &< 2 \cdot u_{12} \\ 2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\ 2 \cdot u_{20} + u_{01} &< 2 \cdot u_{10} + u_{21} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\ 2 \cdot u_{01} + 2 \cdot u_{22} &< 2 \cdot u_{21} + 2 \cdot u_{02} \end{aligned}$$

312. Vertex: $(0, 4, 0, 2, 4, 8, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{20} + 2 \cdot u_{21} + 6 \cdot u_{01} + 2 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

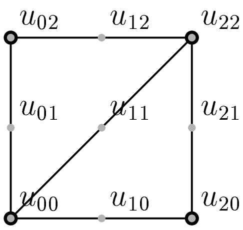
2	0	0	2
1	6	0	2
0	0	0	2
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{20} + 2 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{21} \\
4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\
2 \cdot u_{01} + 2 \cdot u_{22} &< 2 \cdot u_{21} + 2 \cdot u_{02}
\end{aligned}$$

313. Vertex: $(0,4,0,8,0,0,8,0,4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $u_{20} + 5 \cdot u_{00} + 5 \cdot u_{22} + u_{02}$

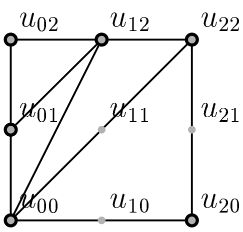
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 1 & 0 & 5 \\ 1 & 0 & 0 & 0 \\ 0 & 5 & 0 & 1 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\ 4 \cdot u_{00} + 4 \cdot u_{22} &< 8 \cdot u_{11} \\ 2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\ 2 \cdot u_{20} + 2 \cdot u_{22} &< 4 \cdot u_{21} \\ 2 \cdot u_{22} + 2 \cdot u_{02} &< 4 \cdot u_{12} \\ 4 \cdot u_{00} + 4 \cdot u_{22} &< 4 \cdot u_{20} + 4 \cdot u_{02} \end{aligned}$$

314. Vertex: $(0,4,0,7,0,2,6,4,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $u_{20} + 5 \cdot u_{00} + 4 \cdot u_{22} + 2 \cdot u_{12}$

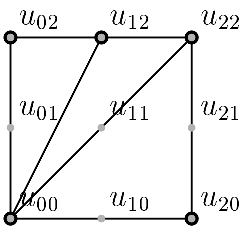
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 2 & 4 \\ 1 & 0 & 0 & 0 \\ 0 & 5 & 0 & 1 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{01} + u_{22} \\ 3 \cdot u_{00} + 3 \cdot u_{22} &< 6 \cdot u_{11} \\ 2 \cdot u_{20} + 2 \cdot u_{22} &< 4 \cdot u_{21} \\ 2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \\ 2 \cdot u_{00} + 4 \cdot u_{22} &< 2 \cdot u_{20} + 4 \cdot u_{12} \end{aligned}$$

315. Vertex: $(0, 4, 0, 8, 0, 0, 6, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $u_{20} + 5 \cdot u_{00} + 4 \cdot u_{22} + 2 \cdot u_{12}$

$c_T(i,j)$			
2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

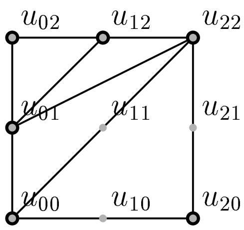
$\eta_T(i,j)$			
2	0	2	4
1	0	0	0
0	5	0	1
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{00} + 3 \cdot u_{22} &< 6 \cdot u_{11} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
4 \cdot u_{12} &< 2 \cdot u_{22} + 2 \cdot u_{02} \\
2 \cdot u_{20} + 2 \cdot u_{22} &< 4 \cdot u_{21} \\
2 \cdot u_{00} + 4 \cdot u_{22} &< 2 \cdot u_{20} + 4 \cdot u_{12}
\end{aligned}$$

316. Vertex: $(0, 4, 0, 6, 0, 4, 7, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $u_{20} + 4 \cdot u_{00} + 2 \cdot u_{01} + 5 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i, j)$	0	1	2

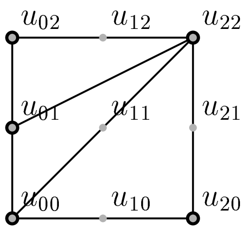
2	0	0	5
1	2	0	0
0	4	0	1
$\eta_T(i, j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
3 \cdot u_{00} + 3 \cdot u_{22} &< 6 \cdot u_{11} \\
2 \cdot u_{20} + 2 \cdot u_{22} &< 4 \cdot u_{21} \\
2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
4 \cdot u_{00} + 2 \cdot u_{22} &< 2 \cdot u_{20} + 4 \cdot u_{01} \\
2 \cdot u_{01} + u_{22} &< u_{00} + 2 \cdot u_{12}
\end{aligned}
$$

317. Vertex: $(0,4,0,6,0,4,8,0,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $u_{20} + 4 \cdot u_{00} + 2 \cdot u_{01} + 5 \cdot u_{22}$

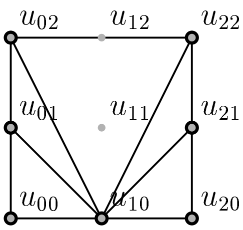
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 0 & 5 \\ 1 & 2 & 0 & 0 \\ 0 & 4 & 0 & 1 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 3 \cdot u_{00} + 3 \cdot u_{22} &< 6 \cdot u_{11} \\ u_{22} + u_{02} &< 2 \cdot u_{12} \\ 2 \cdot u_{20} + 2 \cdot u_{22} &< 4 \cdot u_{21} \\ 2 \cdot u_{20} + 2 \cdot u_{00} &< 4 \cdot u_{10} \\ 4 \cdot u_{00} + 2 \cdot u_{22} &< 2 \cdot u_{20} + 4 \cdot u_{01} \\ 4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \end{aligned}$$

318. Vertex: $(0,1,8,1,2,2,5,0,5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $6 \cdot u_{10} + 3 \cdot u_{22} + 3 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

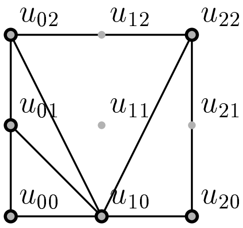
2	3	0	3
1	0	0	0
0	0	6	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 3 \cdot u_{02} &< 4 \cdot u_{01} + u_{22} \\
2 \cdot u_{10} + u_{22} + u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{22} + 2 \cdot u_{02} &< 4 \cdot u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{10} + 3 \cdot u_{22} &< 4 \cdot u_{21} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

319. Vertex: $(0,2,8,1,0,2,6,0,5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $6 \cdot u_{10} + 3 \cdot u_{22} + 3 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

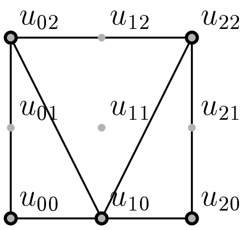
2	3	0	3
1	0	0	0
0	0	6	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 3 \cdot u_{02} &< 4 \cdot u_{01} + u_{22} \\
2 \cdot u_{10} + u_{22} + u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{10} + 2 \cdot u_{22} &< 4 \cdot u_{20} + 2 \cdot u_{02} \\
2 \cdot u_{22} + 2 \cdot u_{02} &< 4 \cdot u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

320. Vertex: $(0, 2, 8, 2, 0, 0, 6, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $6 \cdot u_{10} + 3 \cdot u_{22} + 3 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

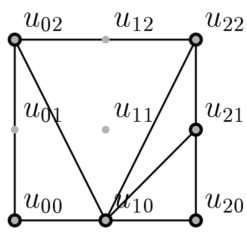
2	3	0	3
1	0	0	0
0	0	6	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
4 \cdot u_{10} + 2 \cdot u_{02} &< 4 \cdot u_{00} + 2 \cdot u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{10} + u_{22} + u_{02} &< 4 \cdot u_{11} \\
4 \cdot u_{10} + 2 \cdot u_{22} &< 4 \cdot u_{20} + 2 \cdot u_{02} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{22} + 2 \cdot u_{02} &< 4 \cdot u_{12}
\end{aligned}$$

321. Vertex: $(0, 1, 8, 2, 2, 0, 5, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $6 \cdot u_{10} + 3 \cdot u_{22} + 3 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

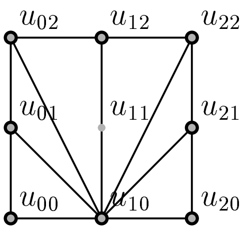
2	3	0	3
1	0	0	0
0	0	6	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
4 \cdot u_{10} + 2 \cdot u_{02} &< 4 \cdot u_{00} + 2 \cdot u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{10} + u_{22} + u_{02} &< 4 \cdot u_{11} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{10} + 3 \cdot u_{22} &< 4 \cdot u_{21} + u_{02} \\
2 \cdot u_{22} + 2 \cdot u_{02} &< 4 \cdot u_{12}
\end{aligned}$$

322. Vertex: $(0,1,8,1,2,2,3,4,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $\quad 0$

The generic valuation of Δ is: $\quad 6 \cdot u_{10} + 2 \cdot u_{22} + 2 \cdot u_{12} + 2 \cdot u_{02}$

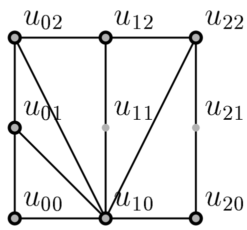
$$
\begin{array}{c|ccc}
2 & 0 & 0 & 0 \\
1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
\hline
c_T(i,j) & 0 & 1 & 2
\end{array}
\qquad
\begin{array}{c|ccc}
2 & 2 & 2 & 2 \\
1 & 0 & 0 & 0 \\
0 & 0 & 6 & 0 \\
\hline
\eta_T(i,j) & 0 & 1 & 2
\end{array}
$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{01} + u_{12} \\
u_{10} + 2 \cdot u_{22} &< 2 \cdot u_{21} + u_{12} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
4 \cdot u_{12} &< 2 \cdot u_{22} + 2 \cdot u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}
$$

323. Vertex: $(0,2,8,1,0,2,4,4,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $6 \cdot u_{10} + 2 \cdot u_{22} + 2 \cdot u_{12} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

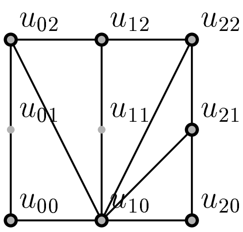
2	2	2	2
1	0	0	0
0	0	6	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{01} + u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{22} &< 2 \cdot u_{20} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{22} + 2 \cdot u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

324. Vertex: $(0,1,8,2,2,0,3,4,4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $6 \cdot u_{10} + 2 \cdot u_{22} + 2 \cdot u_{12} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

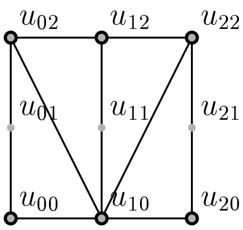
2	2	2	2
1	0	0	0
0	0	6	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{22} + 2 \cdot u_{02} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{10} + 2 \cdot u_{22} &< 2 \cdot u_{21} + u_{12}
\end{aligned}$$

325. Vertex: $(0, 2, 8, 2, 0, 0, 4, 4, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $6 \cdot u_{10} + 2 \cdot u_{22} + 2 \cdot u_{12} + 2 \cdot u_{02}$

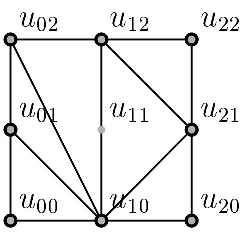
$$\begin{array}{c|ccc}
2 & 0 & 0 & 0 \\
1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
\hline
c_T(i,j) & 0 & 1 & 2
\end{array}
\qquad
\begin{array}{c|ccc}
2 & 2 & 2 & 2 \\
1 & 0 & 0 & 0 \\
0 & 0 & 6 & 0 \\
\hline
\eta_T(i,j) & 0 & 1 & 2
\end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
4 \cdot u_{12} &< 2 \cdot u_{22} + 2 \cdot u_{02} \\
2 \cdot u_{10} + 2 \cdot u_{22} &< 2 \cdot u_{20} + 2 \cdot u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21}
\end{aligned}$$

326. Vertex: $(0,1,7,1,4,2,1,5,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{10} + 2 \cdot u_{21} + 3 \cdot u_{12} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

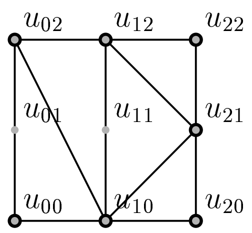
2	2	3	0
1	0	0	2
0	0	5	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{01} + u_{12} \\
2 \cdot u_{21} + u_{12} &< u_{10} + 2 \cdot u_{22} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

327. Vertex: $(0,1,7,2,4,0,1,5,4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{10} + 2 \cdot u_{21} + 3 \cdot u_{12} + 2 \cdot u_{02}$

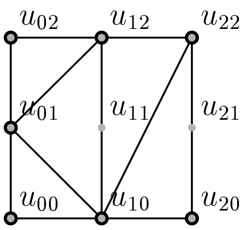
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 2 & 3 & 0 \\ 1 & 0 & 0 & 2 \\ 0 & 0 & 5 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\ 2 \cdot u_{10} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\ u_{00} + u_{02} &< 2 \cdot u_{01} \\ 2 \cdot u_{21} + u_{12} &< u_{10} + 2 \cdot u_{22} \\ u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{02} \\ u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \end{aligned}$$

328. Vertex: $(0, 2, 7, 1, 0, 4, 4, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{10} + 2 \cdot u_{01} + 2 \cdot u_{22} + 3 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

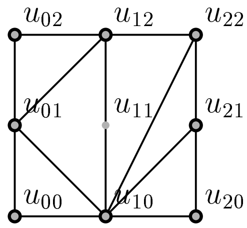
2	0	3	2
1	2	0	0
0	0	5	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{01} + 2 \cdot u_{22} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12} \\
2 \cdot u_{10} + 2 \cdot u_{22} &< 2 \cdot u_{20} + 2 \cdot u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{01} + u_{12} &< u_{10} + 2 \cdot u_{02}
\end{aligned}$$

329. Vertex: $(0, 1, 7, 1, 2, 4, 3, 5, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{10} + 2 \cdot u_{01} + 2 \cdot u_{22} + 3 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

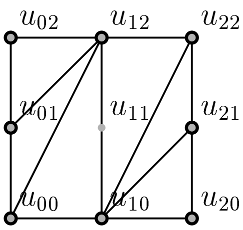
2	0	3	2
1	2	0	0
0	0	5	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 3 \cdot u_{12} &< 2 \cdot u_{01} + 2 \cdot u_{22} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
u_{10} + 2 \cdot u_{22} &< 2 \cdot u_{21} + u_{12} \\
2 \cdot u_{01} + u_{12} &< u_{10} + 2 \cdot u_{02}
\end{aligned}$$

330. Vertex: $(0,1,6,3,2,2,3,6,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{22} + 4 \cdot u_{12}$

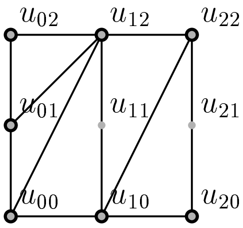
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 4 & 2 \\ 1 & 0 & 0 & 0 \\ 0 & 2 & 4 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\ 2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ u_{10} + 2 \cdot u_{22} &< 2 \cdot u_{21} + u_{12} \\ 2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \end{aligned}$$

331. Vertex: $(0, 2, 6, 3, 0, 2, 4, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{22} + 4 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

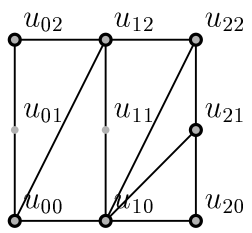
2	0	4	2
1	0	0	0
0	2	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
2 \cdot u_{10} + 2 \cdot u_{22} &< 2 \cdot u_{20} + 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

332. Vertex: $(0, 1, 6, 4, 2, 0, 3, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $\quad 0$

The generic valuation of Δ is: $\quad 4 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{22} + 4 \cdot u_{12}$

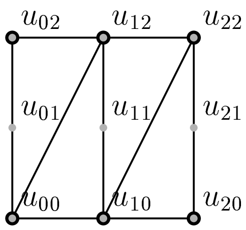
$$\begin{array}{c|ccc}
2 & 0 & 0 & 0 \\
1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
\hline
c_T(i,j) & 0 & 1 & 2
\end{array}
\qquad
\begin{array}{c|ccc}
2 & 0 & 4 & 2 \\
1 & 0 & 0 & 0 \\
0 & 2 & 4 & 0 \\
\hline
\eta_T(i,j) & 0 & 1 & 2
\end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
u_{10} + 2 \cdot u_{22} &< 2 \cdot u_{21} + u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{02}
\end{aligned}$$

333. Vertex: $(0, 2, 6, 4, 0, 0, 4, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{22} + 4 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

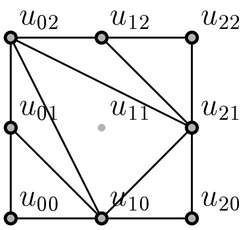
2	0	4	2
1	0	0	0
0	2	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{22} &< 2 \cdot u_{20} + 2 \cdot u_{12} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{02}
\end{aligned}$$

334. Vertex: $(0, 1, 6, 1, 6, 2, 1, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{02}$

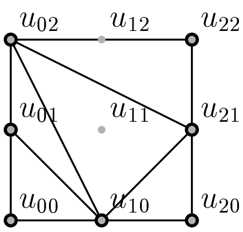
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 4 & 0 & 0 \\ 1 & 0 & 0 & 4 \\ 0 & 0 & 4 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl} 2 \cdot u_{10} + 2 \cdot u_{02} & < & u_{21} + 3 \cdot u_{01} \\ 2 \cdot u_{21} + 2 \cdot u_{02} & < & u_{10} + 3 \cdot u_{12} \\ 2 \cdot u_{12} & < & u_{22} + u_{02} \\ u_{10} + u_{21} + u_{02} & < & 3 \cdot u_{11} \\ 2 \cdot u_{10} + 2 \cdot u_{21} & < & 3 \cdot u_{20} + u_{02} \\ 2 \cdot u_{01} & < & u_{00} + u_{02} \end{array}$$

335. Vertex: $(0,1,6,1,6,2,2,0,6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

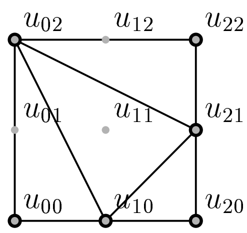
2	4	0	0
1	0	0	4
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{02} &< u_{21} + 3 \cdot u_{01} \\
u_{10} + u_{21} + u_{02} &< 3 \cdot u_{11} \\
4 \cdot u_{21} + u_{02} &< 2 \cdot u_{10} + 3 \cdot u_{22} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{10} + 2 \cdot u_{21} &< 3 \cdot u_{20} + u_{02} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

336. Vertex: $(0, 1, 6, 2, 6, 0, 2, 0, 7)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

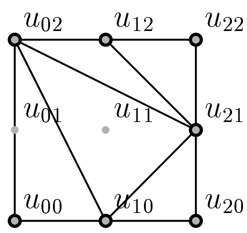
2	4	0	0
1	0	0	4
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
4 \cdot u_{10} + u_{02} &< 3 \cdot u_{00} + 2 \cdot u_{21} \\
u_{10} + u_{21} + u_{02} &< 3 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{21} &< 3 \cdot u_{20} + u_{02} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{21} + u_{02} &< 2 \cdot u_{10} + 3 \cdot u_{22} \\
u_{22} + u_{02} &< 2 \cdot u_{12}
\end{aligned}$$

337. Vertex: $(0,1,6,2,6,0,1,2,6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

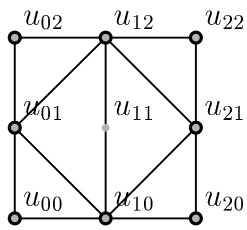
2	4	0	0
1	0	0	4
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{10} + u_{02} &< 3 \cdot u_{00} + 2 \cdot u_{21} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{10} + 2 \cdot u_{21} &< 3 \cdot u_{20} + u_{02} \\
u_{10} + u_{21} + u_{02} &< 3 \cdot u_{11} \\
2 \cdot u_{21} + 2 \cdot u_{02} &< u_{10} + 3 \cdot u_{12}
\end{aligned}$$

338. Vertex: $(0, 1, 6, 1, 4, 4, 1, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{10} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

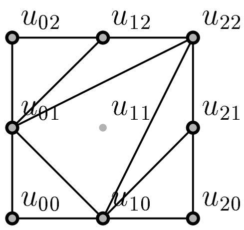
2	0	4	0
1	2	0	2
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{10} + 2 \cdot u_{01} &< 2 \cdot u_{00} + u_{12} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
2 \cdot u_{21} + u_{12} &< u_{10} + 2 \cdot u_{22} \\
2 \cdot u_{01} + u_{12} &< u_{10} + 2 \cdot u_{02}
\end{aligned}
$$

339. Vertex: $(0,1,6,1,2,6,5,2,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{10} + 4 \cdot u_{01} + 4 \cdot u_{22}$

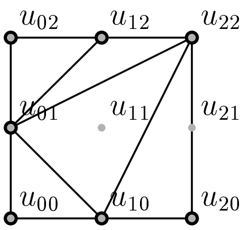
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 0 & 4 \\ 1 & 4 & 0 & 0 \\ 0 & 0 & 4 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl} 2 \cdot u_{10} + 2 \cdot u_{01} & < & 3 \cdot u_{00} + u_{22} \\ u_{10} + u_{01} + u_{22} & < & 3 \cdot u_{11} \\ 2 \cdot u_{10} + 2 \cdot u_{22} & < & 3 \cdot u_{21} + u_{01} \\ 2 \cdot u_{21} & < & u_{20} + u_{22} \\ 2 \cdot u_{12} & < & u_{22} + u_{02} \\ 2 \cdot u_{01} + 2 \cdot u_{22} & < & u_{10} + 3 \cdot u_{12} \end{array}$$

340. Vertex: $(0, 2, 6, 1, 0, 6, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{10} + 4 \cdot u_{01} + 4 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

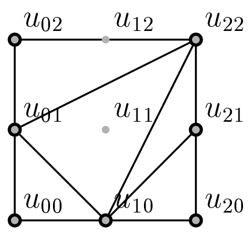
2	0	0	4
1	4	0	0
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{01} &< 3 \cdot u_{00} + u_{22} \\
u_{10} + u_{01} + u_{22} &< 3 \cdot u_{11} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
4 \cdot u_{10} + u_{22} &< 3 \cdot u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{01} + 2 \cdot u_{22} &< u_{10} + 3 \cdot u_{12}
\end{aligned}$$

341. Vertex: $(0, 1, 6, 1, 2, 6, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{10} + 4 \cdot u_{01} + 4 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

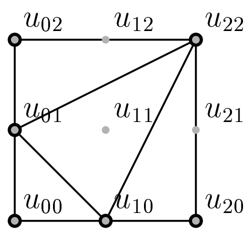
2	0	0	4
1	4	0	0
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{10} + u_{01} + u_{22} &< 3 \cdot u_{11} \\
2 \cdot u_{10} + 2 \cdot u_{22} &< 3 \cdot u_{21} + u_{01} \\
2 \cdot u_{10} + 2 \cdot u_{01} &< 3 \cdot u_{00} + u_{22} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
4 \cdot u_{01} + u_{22} &< 2 \cdot u_{10} + 3 \cdot u_{02}
\end{aligned}$$

342. Vertex: $(0,2,6,1,0,6,7,0,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{10} + 4 \cdot u_{01} + 4 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

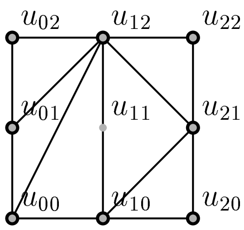
2	0	0	4
1	4	0	0
0	0	4	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{10} + 2 \cdot u_{01} &< 3 \cdot u_{00} + u_{22} \\
u_{10} + u_{01} + u_{22} &< 3 \cdot u_{11} \\
4 \cdot u_{10} + u_{22} &< 3 \cdot u_{20} + 2 \cdot u_{01} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
4 \cdot u_{01} + u_{22} &< 2 \cdot u_{10} + 3 \cdot u_{02}
\end{aligned}$$

343. Vertex: $(0, 1, 5, 3, 4, 2, 1, 7, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{21} + 5 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

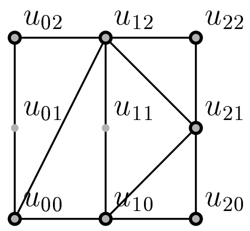
2	0	5	0
1	0	0	2
0	2	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
2 \cdot u_{21} + u_{12} &< u_{10} + 2 \cdot u_{22} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{21} \\
2 \cdot u_{00} + u_{12} &< u_{10} + 2 \cdot u_{01} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}
$$

344. Vertex: $(0, 1, 5, 4, 4, 0, 1, 7, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{10} + 2 \cdot u_{00} + 2 \cdot u_{21} + 5 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

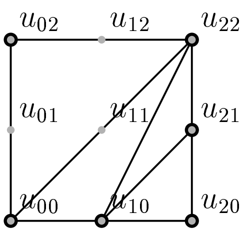
2	0	5	0
1	0	0	2
0	2	3	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{10} + 2 \cdot u_{12} &< 4 \cdot u_{11} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
3 \cdot u_{10} + u_{12} &< 2 \cdot u_{00} + 2 \cdot u_{21} \\
2 \cdot u_{21} + u_{12} &< u_{10} + 2 \cdot u_{22} \\
u_{10} + 2 \cdot u_{21} &< 2 \cdot u_{20} + u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{10} + 2 \cdot u_{02}
\end{aligned}$$

345. Vertex: $(0, 1, 4, 6, 2, 0, 7, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{10} + 4 \cdot u_{00} + 5 \cdot u_{22} + u_{02}$

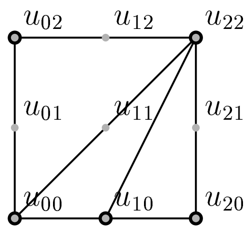
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 1 & 0 & 5 \\ 1 & 0 & 0 & 0 \\ 0 & 4 & 2 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\ 2 \cdot u_{10} + u_{22} &< u_{00} + 2 \cdot u_{21} \\ 3 \cdot u_{00} + 3 \cdot u_{22} &< 6 \cdot u_{11} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 2 \cdot u_{22} + 2 \cdot u_{02} &< 4 \cdot u_{12} \\ 4 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{10} + 2 \cdot u_{02} \end{aligned}$$

346. Vertex: $(0,2,4,6,0,0,8,0,4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{10} + 4 \cdot u_{00} + 5 \cdot u_{22} + u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

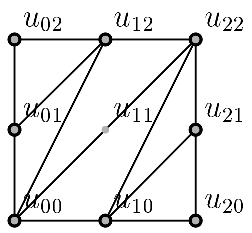
2	1	0	5
1	0	0	0
0	4	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{22} + 2 \cdot u_{02} &< 4 \cdot u_{12} \\
3 \cdot u_{00} + 3 \cdot u_{22} &< 6 \cdot u_{11} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
4 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{10} + 2 \cdot u_{02}
\end{aligned}$$

347. Vertex: $(0, 1, 4, 5, 2, 2, 5, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{10} + 4 \cdot u_{00} + 4 \cdot u_{22} + 2 \cdot u_{12}$

$c_T(i,j)$	0	1	2
2	0	0	0
1	0	0	0
0	0	0	0

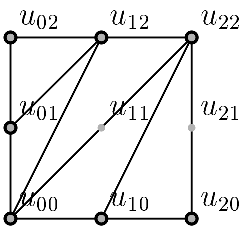
$\eta_T(i,j)$	0	1	2
2	0	2	4
1	0	0	0
0	4	2	0

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{01} + u_{22} \\
2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{10} + u_{22} &< u_{00} + 2 \cdot u_{21} \\
2 \cdot u_{00} + 2 \cdot u_{22} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

348. Vertex: $(0, 2, 4, 5, 0, 2, 6, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $\quad 0$

The generic valuation of Δ is: $\quad 2 \cdot u_{10} + 4 \cdot u_{00} + 4 \cdot u_{22} + 2 \cdot u_{12}$

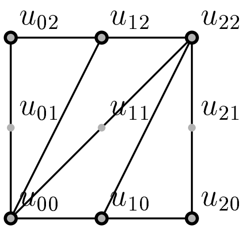
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 2 & 4 \\ 1 & 0 & 0 & 0 \\ 0 & 4 & 2 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{01} + u_{22} \\ u_{20} + u_{22} &< 2 \cdot u_{21} \\ 2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\ 4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\ 2 \cdot u_{00} + 2 \cdot u_{22} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \end{aligned}$$

349. Vertex: $(0, 2, 4, 6, 0, 0, 6, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{10} + 4 \cdot u_{00} + 4 \cdot u_{22} + 2 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

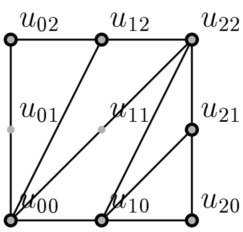
2	0	2	4
1	0	0	0
0	4	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{12} &< 2 \cdot u_{22} + 2 \cdot u_{02} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
2 \cdot u_{00} + 2 \cdot u_{22} &< 2 \cdot u_{10} + 2 \cdot u_{12}
\end{aligned}$$

350. Vertex: $(0, 1, 4, 6, 2, 0, 5, 4, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{10} + 4 \cdot u_{00} + 4 \cdot u_{22} + 2 \cdot u_{12}$

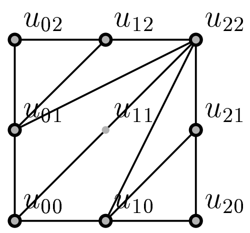
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 2 & 4 \\ 1 & 0 & 0 & 0 \\ 0 & 4 & 2 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{00} + u_{02} &< 2 \cdot u_{01} \\ 2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\ 4 \cdot u_{12} &< 2 \cdot u_{22} + 2 \cdot u_{02} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 2 \cdot u_{10} + u_{22} &< u_{00} + 2 \cdot u_{21} \\ 2 \cdot u_{00} + 2 \cdot u_{22} &< 2 \cdot u_{10} + 2 \cdot u_{12} \end{aligned}$$

351. Vertex: $(0, 1, 4, 4, 2, 4, 6, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $\quad 0$

The generic valuation of Δ is: $\quad 2 \cdot u_{10} + 3 \cdot u_{00} + 2 \cdot u_{01} + 5 \cdot u_{22}$

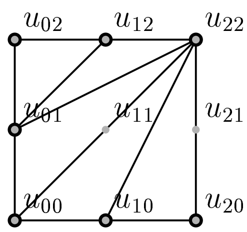
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 0 & 5 \\ 1 & 2 & 0 & 0 \\ 0 & 3 & 2 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\ 2 \cdot u_{10} + u_{22} &< u_{00} + 2 \cdot u_{21} \\ 2 \cdot u_{21} &< u_{20} + u_{22} \\ 3 \cdot u_{00} + u_{22} &< 2 \cdot u_{10} + 2 \cdot u_{01} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ 2 \cdot u_{01} + u_{22} &< u_{00} + 2 \cdot u_{12} \end{aligned}$$

352. Vertex: $(0, 2, 4, 4, 0, 4, 7, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{10} + 3 \cdot u_{00} + 2 \cdot u_{01} + 5 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

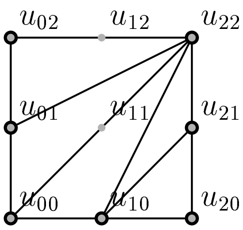
2	0	0	5
1	2	0	0
0	3	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
3 \cdot u_{00} + u_{22} &< 2 \cdot u_{10} + 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{01} + u_{22} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

353. Vertex: $(0,1,4,4,2,4,7,0,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{10} + 3 \cdot u_{00} + 2 \cdot u_{01} + 5 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

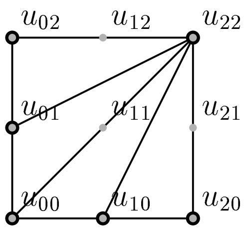
2	0	0	5
1	2	0	0
0	3	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{21} &< u_{20} + u_{22} \\
2 \cdot u_{10} + u_{22} &< u_{00} + 2 \cdot u_{21} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \\
3 \cdot u_{00} + u_{22} &< 2 \cdot u_{10} + 2 \cdot u_{01}
\end{aligned}$$

354. Vertex: $(0,2,4,4,0,4,8,0,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{10} + 3 \cdot u_{00} + 2 \cdot u_{01} + 5 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

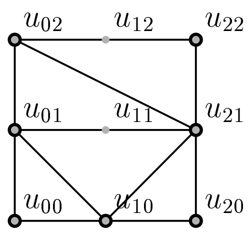
2	0	0	5
1	2	0	0
0	3	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\
u_{20} + u_{22} &< 2 \cdot u_{21} \\
4 \cdot u_{10} &< 2 \cdot u_{20} + 2 \cdot u_{00} \\
3 \cdot u_{00} + u_{22} &< 2 \cdot u_{10} + 2 \cdot u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02}
\end{aligned}$$

355. Vertex: $(0,1,4,1,7,5,2,0,4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{10} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

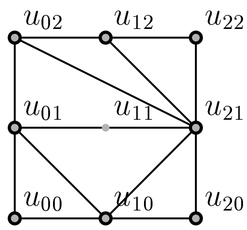
2	2	0	0
1	3	0	5
0	0	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{22} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21} \\
2 \cdot u_{10} + u_{21} &< 2 \cdot u_{20} + u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{02}
\end{aligned}$$

356. Vertex: $(0, 1, 4, 1, 7, 5, 1, 2, 3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $\quad 0$

The generic valuation of Δ is: $\quad 2 \cdot u_{10} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

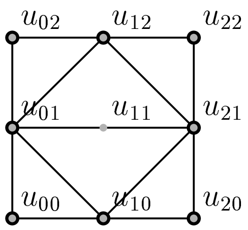
2	2	0	0
1	3	0	5
0	0	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12} \\
2 \cdot u_{10} + u_{21} &< 2 \cdot u_{20} + u_{01} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{02}
\end{aligned}$$

357. Vertex: $(0,1,4,1,6,6,1,4,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{10} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

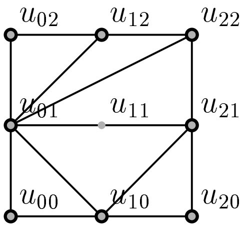
2	0	2	0
1	4	0	4
0	0	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{12} &< u_{01} + 2 \cdot u_{22} \\
2 \cdot u_{10} + u_{21} &< 2 \cdot u_{20} + u_{01} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

358. Vertex: $(0, 1, 4, 1, 5, 7, 3, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{10} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

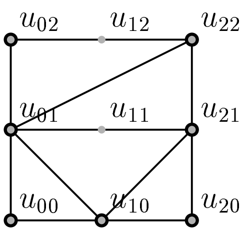
2	0	0	2
1	5	0	3
0	0	2	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21} \\
2 \cdot u_{10} + u_{21} &< 2 \cdot u_{20} + u_{01} \\
3 \cdot u_{21} + u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{22} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{01} + 2 \cdot u_{22} &< u_{21} + 2 \cdot u_{12}
\end{aligned}$$

359. Vertex: $(0, 1, 4, 1, 5, 7, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{10} + 3 \cdot u_{21} + 5 \cdot u_{01} + 2 \cdot u_{22}$

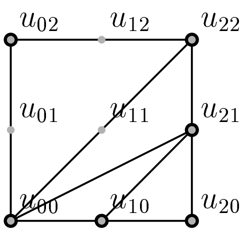
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 0 & 2 \\ 1 & 5 & 0 & 3 \\ 0 & 0 & 2 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\ u_{22} + u_{02} &< 2 \cdot u_{12} \\ 2 \cdot u_{10} + u_{21} &< 2 \cdot u_{20} + u_{01} \\ 2 \cdot u_{10} + u_{01} &< 2 \cdot u_{00} + u_{21} \\ 3 \cdot u_{21} + u_{01} &< 2 \cdot u_{10} + 2 \cdot u_{22} \\ 2 \cdot u_{01} + 2 \cdot u_{22} &< 2 \cdot u_{21} + 2 \cdot u_{02} \end{aligned}$$

360. Vertex: $(0, 1, 2, 7, 4, 0, 6, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{00} + 2 \cdot u_{21} + 4 \cdot u_{22} + u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

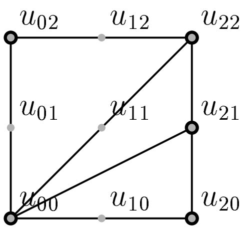
2	1	0	4
1	0	0	2
0	5	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{10} + u_{22} \\
3 \cdot u_{00} + 3 \cdot u_{22} &< 6 \cdot u_{11} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{22} + 2 \cdot u_{02} &< 4 \cdot u_{12} \\
2 \cdot u_{00} + 4 \cdot u_{22} &< 4 \cdot u_{21} + 2 \cdot u_{02}
\end{aligned}$$

361. Vertex: $(0, 2, 0, 8, 4, 0, 6, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{00} + 2 \cdot u_{21} + 4 \cdot u_{22} + u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

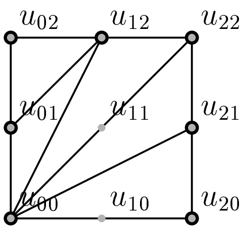
2	1	0	4
1	0	0	2
0	5	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\
2 \cdot u_{22} + 2 \cdot u_{02} &< 4 \cdot u_{12} \\
3 \cdot u_{00} + 3 \cdot u_{22} &< 6 \cdot u_{11} \\
2 \cdot u_{00} + 4 \cdot u_{22} &< 4 \cdot u_{21} + 2 \cdot u_{02}
\end{aligned}$$

362. Vertex: $(0, 2, 0, 7, 4, 2, 4, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: $\quad 0$

The generic valuation of Δ is: $\quad 5 \cdot u_{00} + 2 \cdot u_{21} + 3 \cdot u_{22} + 2 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

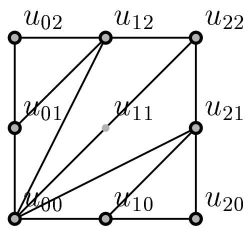
2	0	2	3
1	0	0	2
0	5	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{01} + u_{22} \\
2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\
2 \cdot u_{01} &< u_{00} + u_{02} \\
u_{00} + 3 \cdot u_{22} &< 2 \cdot u_{21} + 2 \cdot u_{12}
\end{aligned}$$

363. Vertex: $(0, 1, 2, 6, 4, 2, 4, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{00} + 2 \cdot u_{21} + 3 \cdot u_{22} + 2 \cdot u_{12}$

$c_T(i,j)$	0	1	2
2	0	0	0
1	0	0	0
0	0	0	0

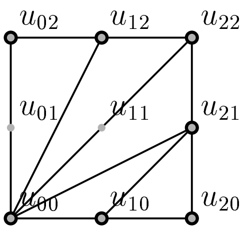
$\eta_T(i,j)$	0	1	2
2	0	2	3
1	0	0	2
0	5	0	0

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + 2 \cdot u_{12} &< 2 \cdot u_{01} + u_{22} \\
2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{10} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + 3 \cdot u_{22} &< 2 \cdot u_{21} + 2 \cdot u_{12} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

364. Vertex: $(0,1,2,7,4,0,4,4,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{00} + 2 \cdot u_{21} + 3 \cdot u_{22} + 2 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

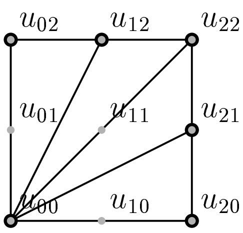
2	0	2	3
1	0	0	2
0	5	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
4 \cdot u_{12} &< 2 \cdot u_{22} + 2 \cdot u_{02} \\
2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{10} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + 3 \cdot u_{22} &< 2 \cdot u_{21} + 2 \cdot u_{12}
\end{aligned}$$

365. Vertex: $(0,2,0,8,4,0,4,4,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $5 \cdot u_{00} + 2 \cdot u_{21} + 3 \cdot u_{22} + 2 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

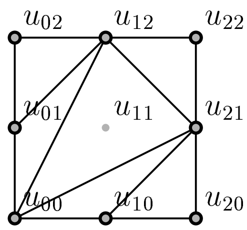
2	0	2	3
1	0	0	2
0	5	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\
4 \cdot u_{12} &< 2 \cdot u_{22} + 2 \cdot u_{02} \\
4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + 3 \cdot u_{22} &< 2 \cdot u_{21} + 2 \cdot u_{12}
\end{aligned}$$

366. Vertex: $(0, 1, 2, 5, 6, 2, 1, 6, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

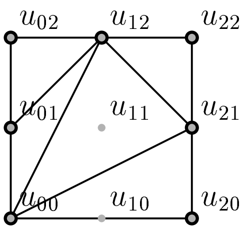
2	0	4	0
1	0	0	4
0	4	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{12} &< u_{00} + 3 \cdot u_{22} \\
2 \cdot u_{00} + 2 \cdot u_{12} &< u_{21} + 3 \cdot u_{01} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 3 \cdot u_{10} + u_{12} \\
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{01} &< u_{00} + u_{02}
\end{aligned}$$

367. Vertex: $(0,2,0,6,6,2,1,6,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

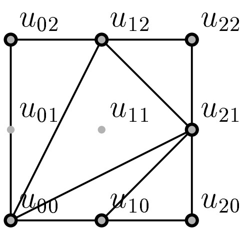
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 4 & 0 \\ 1 & 0 & 0 & 4 \\ 0 & 4 & 0 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{21} + 2 \cdot u_{12} &< u_{00} + 3 \cdot u_{22} \\ 2 \cdot u_{00} + 2 \cdot u_{12} &< u_{21} + 3 \cdot u_{01} \\ u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\ u_{20} + u_{00} &< 2 \cdot u_{10} \\ u_{00} + 4 \cdot u_{21} &< 3 \cdot u_{20} + 2 \cdot u_{12} \\ 2 \cdot u_{01} &< u_{00} + u_{02} \end{aligned}$$

368. Vertex: $(0,1,2,6,6,0,1,6,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

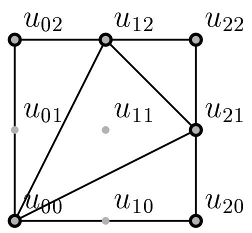
2	0	4	0
1	0	0	4
0	4	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{00} + u_{02} &< 2 \cdot u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{12} &< u_{00} + 3 \cdot u_{22} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 3 \cdot u_{10} + u_{12} \\
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + 4 \cdot u_{12} &< 2 \cdot u_{21} + 3 \cdot u_{02}
\end{aligned}$$

369. Vertex: $(0, 2, 0, 7, 6, 0, 1, 6, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

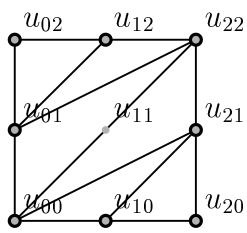
2	0	4	0
1	0	0	4
0	4	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{12} &< u_{00} + 3 \cdot u_{22} \\
u_{00} + u_{02} &< 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
u_{00} + u_{21} + u_{12} &< 3 \cdot u_{11} \\
u_{00} + 4 \cdot u_{12} &< 2 \cdot u_{21} + 3 \cdot u_{02} \\
u_{00} + 4 \cdot u_{21} &< 3 \cdot u_{20} + 2 \cdot u_{12}
\end{aligned}$$

370. Vertex: $(0, 1, 2, 5, 4, 4, 5, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{00} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{22}$

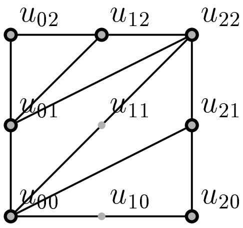
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 0 & 0 & 4 \\ 1 & 2 & 0 & 2 \\ 0 & 4 & 0 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\ 2 \cdot u_{00} + 2 \cdot u_{22} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\ u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{10} + u_{22} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ 2 \cdot u_{01} + u_{22} &< u_{00} + 2 \cdot u_{12} \end{aligned}$$

371. Vertex: $(0,2,0,6,4,4,5,2,1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{00} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

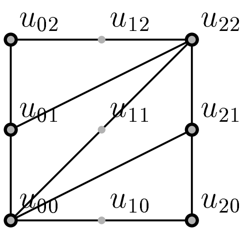
2	0	0	4
1	2	0	2
0	4	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\
2 \cdot u_{00} + 2 \cdot u_{22} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{01} + u_{22} &< u_{00} + 2 \cdot u_{12}
\end{aligned}$$

372. Vertex: $(0,2,0,6,4,4,6,0,2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{00} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

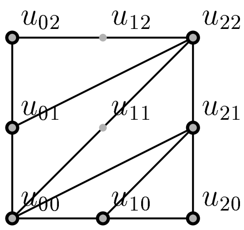
2	0	0	4
1	2	0	2
0	4	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
4 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{22} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{00} + 2 \cdot u_{22} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02}
\end{aligned}$$

373. Vertex: $(0, 1, 2, 5, 4, 4, 6, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $4 \cdot u_{00} + 2 \cdot u_{21} + 2 \cdot u_{01} + 4 \cdot u_{22}$

$c_T(i,j)$	0	1	2
2	0	0	0
1	0	0	0
0	0	0	0

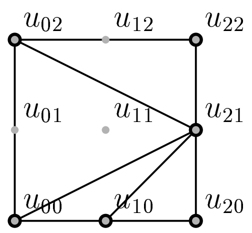
$\eta_T(i,j)$	0	1	2
2	0	0	4
1	2	0	2
0	4	0	0

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + 2 \cdot u_{22} &< 4 \cdot u_{11} \\
u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{10} + u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{00} + 2 \cdot u_{22} &< 2 \cdot u_{21} + 2 \cdot u_{01} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02}
\end{aligned}$$

374. Vertex: $(0, 1, 2, 5, 8, 0, 2, 0, 6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

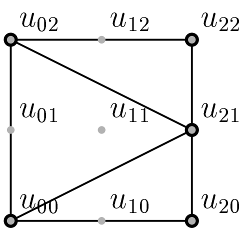
2	3	0	0
1	0	0	6
0	3	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
4 \cdot u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{00} + 4 \cdot u_{22} \\
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{00} + 2 \cdot u_{21} + u_{02} &< 4 \cdot u_{11} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
3 \cdot u_{00} + 2 \cdot u_{21} &< 4 \cdot u_{10} + u_{02}
\end{aligned}$$

375. Vertex: $(0,2,0,6,8,0,2,0,6)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{02}$

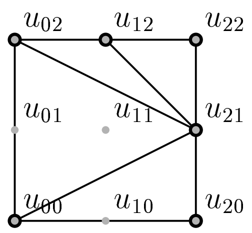
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 3 & 0 & 0 \\ 1 & 0 & 0 & 6 \\ 0 & 3 & 0 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl} 4 \cdot u_{21} + 2 \cdot u_{02} & < & 2 \cdot u_{00} + 4 \cdot u_{22} \\ 2 \cdot u_{00} + 2 \cdot u_{02} & < & 4 \cdot u_{01} \\ u_{00} + 2 \cdot u_{21} + u_{02} & < & 4 \cdot u_{11} \\ u_{20} + u_{00} & < & 2 \cdot u_{10} \\ 2 \cdot u_{00} + 4 \cdot u_{21} & < & 4 \cdot u_{20} + 2 \cdot u_{02} \\ u_{22} + u_{02} & < & 2 \cdot u_{12} \end{array}$$

376. Vertex: $(0, 2, 0, 6, 8, 0, 1, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

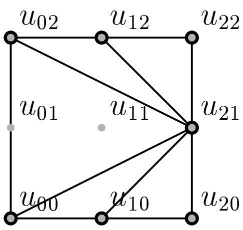
2	3	0	0
1	0	0	6
0	3	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$
\begin{aligned}
2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{21} + 3 \cdot u_{02} &< u_{00} + 4 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{00} + 4 \cdot u_{21} &< 4 \cdot u_{20} + 2 \cdot u_{02} \\
u_{00} + 2 \cdot u_{21} + u_{02} &< 4 \cdot u_{11}
\end{aligned}
$$

377. Vertex: $(0, 1, 2, 5, 8, 0, 1, 2, 5)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $3 \cdot u_{00} + 6 \cdot u_{21} + 3 \cdot u_{02}$

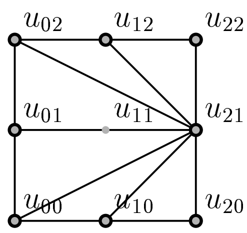
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 3 & 0 & 0 \\ 1 & 0 & 0 & 6 \\ 0 & 3 & 0 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} 2 \cdot u_{00} + 2 \cdot u_{02} &< 4 \cdot u_{01} \\ 2 \cdot u_{21} + 3 \cdot u_{02} &< u_{00} + 4 \cdot u_{12} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ u_{00} + 2 \cdot u_{21} + u_{02} &< 4 \cdot u_{11} \\ 3 \cdot u_{00} + 2 \cdot u_{21} &< 4 \cdot u_{10} + u_{02} \end{aligned}$$

378. Vertex: $(0,1,2,3,8,4,1,2,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{01} + 2 \cdot u_{02}$

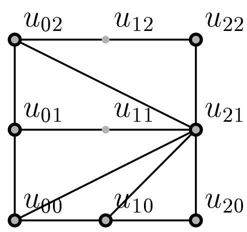
$$\begin{array}{c|ccc} 2 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ \hline c_T(i,j) & 0 & 1 & 2 \end{array} \qquad \begin{array}{c|ccc} 2 & 2 & 0 & 0 \\ 1 & 2 & 0 & 6 \\ 0 & 2 & 0 & 0 \\ \hline \eta_T(i,j) & 0 & 1 & 2 \end{array}$$

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned} u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12} \\ 2 \cdot u_{12} &< u_{22} + u_{02} \\ 2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\ 2 \cdot u_{10} &< u_{20} + u_{00} \\ 2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\ 4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02} \end{aligned}$$

379. Vertex: $(0, 1, 2, 3, 8, 4, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{01} + 2 \cdot u_{02}$

$c_T(i,j)$	0	1	2
2	0	0	0
1	0	0	0
0	0	0	0

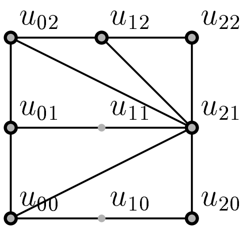
$\eta_T(i,j)$	0	1	2
2	2	0	0
1	2	0	6
0	2	0	0

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{22} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02}
\end{aligned}$$

380. Vertex: $(0,2,0,4,8,4,1,2,3)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{01} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

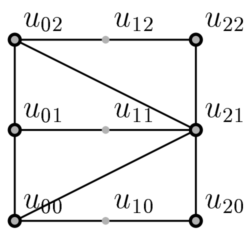
2	2	0	0
1	2	0	6
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{02} &< u_{01} + 2 \cdot u_{12} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02}
\end{aligned}$$

381. Vertex: $(0, 2, 0, 4, 8, 4, 2, 0, 4)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{00} + 6 \cdot u_{21} + 2 \cdot u_{01} + 2 \cdot u_{02}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

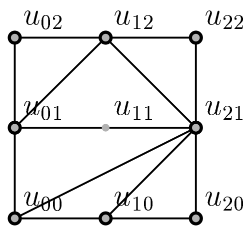
2	2	0	0
1	2	0	6
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{02} &< 2 \cdot u_{01} + 2 \cdot u_{22} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
4 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{02}
\end{aligned}$$

382. Vertex: $(0, 1, 2, 3, 7, 5, 1, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{00} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

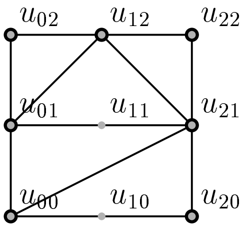
2	0	2	0
1	3	0	5
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{12} &< u_{01} + 2 \cdot u_{22} \\
2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

383. Vertex: $(0, 2, 0, 4, 7, 5, 1, 4, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{00} + 5 \cdot u_{21} + 3 \cdot u_{01} + 2 \cdot u_{12}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

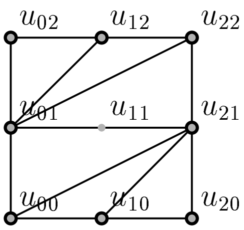
2	0	2	0
1	3	0	5
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
u_{21} + 2 \cdot u_{12} &< u_{01} + 2 \cdot u_{22} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
u_{21} + 3 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{12} \\
u_{01} + 2 \cdot u_{12} &< u_{21} + 2 \cdot u_{02}
\end{aligned}$$

384. Vertex: $(0, 1, 2, 3, 6, 6, 3, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

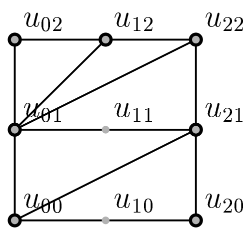
2	0	0	2
1	4	0	4
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
2 \cdot u_{10} &< u_{20} + u_{00} \\
2 \cdot u_{00} + u_{21} &< 2 \cdot u_{10} + u_{01} \\
u_{01} + 2 \cdot u_{22} &< u_{21} + 2 \cdot u_{12} \\
2 \cdot u_{12} &< u_{22} + u_{02}
\end{aligned}$$

385. Vertex: $(0, 2, 0, 4, 6, 6, 3, 2, 1)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{22}$

$c_T(i,j)$	0	1	2
2	0	0	0
1	0	0	0
0	0	0	0

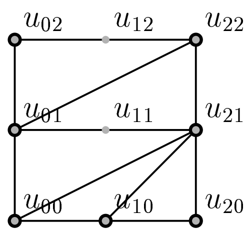
$\eta_T(i,j)$	0	1	2
2	0	0	2
1	4	0	4
0	2	0	0

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
2 \cdot u_{12} &< u_{22} + u_{02} \\
u_{01} + 2 \cdot u_{22} &< u_{21} + 2 \cdot u_{12}
\end{aligned}$$

386. Vertex: $(0, 1, 2, 3, 6, 6, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

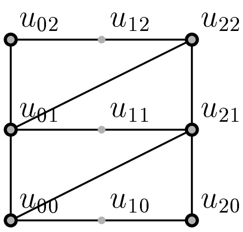
2	0	0	2
1	4	0	4
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{array}{rcl}
u_{22} + u_{02} & < & 2 \cdot u_{12} \\
2 \cdot u_{21} + 2 \cdot u_{01} & < & 4 \cdot u_{11} \\
2 \cdot u_{00} + u_{21} & < & 2 \cdot u_{10} + u_{01} \\
2 \cdot u_{21} + 2 \cdot u_{01} & < & 2 \cdot u_{00} + 2 \cdot u_{22} \\
2 \cdot u_{10} & < & u_{20} + u_{00} \\
2 \cdot u_{01} + 2 \cdot u_{22} & < & 2 \cdot u_{21} + 2 \cdot u_{02}
\end{array}$$

387. Vertex: $(0, 2, 0, 4, 6, 6, 4, 0, 2)$

The marked subdivision of this cone in the secondary fan of a cubic is:



The negative of the cycle length is: 0

The generic valuation of Δ is: $2 \cdot u_{00} + 4 \cdot u_{21} + 4 \cdot u_{01} + 2 \cdot u_{22}$

2	0	0	0
1	0	0	0
0	0	0	0
$c_T(i,j)$	0	1	2

2	0	0	2
1	4	0	4
0	2	0	0
$\eta_T(i,j)$	0	1	2

The inequalities describing the cone of the secondary fan dual to the above vertex:

$$\begin{aligned}
2 \cdot u_{21} + 2 \cdot u_{01} &< 4 \cdot u_{11} \\
u_{22} + u_{02} &< 2 \cdot u_{12} \\
2 \cdot u_{21} + 2 \cdot u_{01} &< 2 \cdot u_{00} + 2 \cdot u_{22} \\
2 \cdot u_{00} + 2 \cdot u_{21} &< 2 \cdot u_{20} + 2 \cdot u_{01} \\
u_{20} + u_{00} &< 2 \cdot u_{10} \\
2 \cdot u_{01} + 2 \cdot u_{22} &< 2 \cdot u_{21} + 2 \cdot u_{02}
\end{aligned}$$