

Rank-76355 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^2 X_3 + X_1^2 X_3 + X_1 X_2^2 + X_0 X_3^2 + X_0 X_1 X_2 = 0$$

(0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 1, 0, 1, 0, 0, 1, 0, 0, 0)

The point rank of the equation over GF(32) is -2112846811

General information

Number of lines	5
Number of points	1121
Number of singular points	0
Number of Eckardt points	1
Number of double points	3
Number of single points	156
Number of points off lines	961
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^5
Type of lines on points	$3, 2^3, 1^{156}, 0^{961}$

Singular Points

The surface has 0 singular points:

The 5 Lines

The lines and their Pluecker coordinates are:

$$\begin{aligned}\ell_0 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \mathbf{Pl}(1, 0, 0, 0, 0, 0)_0 \\ \ell_1 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1024} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1024} = \mathbf{Pl}(0, 0, 1, 0, 0, 0)_2\end{aligned}$$

$$\begin{aligned}\ell_2 &= \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{1057} = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{1057} = \mathbf{Pl}(1, 0, 0, 0, 0, 1)_{34850} \\ \ell_3 &= \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \mathbf{Pl}(0, 1, 0, 0, 0, 0)_1 \\ \ell_4 &= \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{34848} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{34848} = \mathbf{Pl}(0, 1, 1, 0, 0, 0)_{34}\end{aligned}$$

Rank of lines: (0, 1024, 1057, 1083424, 34848)

Rank of points on Klein quadric: (0, 2, 34850, 1, 34)

Eckardt Points

The surface has 1 Eckardt points:

$$0 : P_2 = \mathbf{P}(0, 0, 1, 0) = \mathbf{P}(0, 0, 1, 0).$$

Double Points

The surface has 3 Double points:

The double points on the surface are:

$$P_0 = (1, 0, 0, 0) = \ell_0 \cap \ell_1$$

$$P_1 = (0, 1, 0, 0) = \ell_0 \cap \ell_2$$

$$P_{36} = (1, 0, 1, 0) = \ell_1 \cap \ell_2$$

Single Points

The surface has 156 single points:

The single points on the surface are:

- 0 : $P_3 = (0, 0, 0, 1)$ lies on line ℓ_3
- 1 : $P_5 = (1, 1, 0, 0)$ lies on line ℓ_0
- 2 : $P_6 = (2, 1, 0, 0)$ lies on line ℓ_0
- 3 : $P_7 = (3, 1, 0, 0)$ lies on line ℓ_0
- 4 : $P_8 = (4, 1, 0, 0)$ lies on line ℓ_0
- 5 : $P_9 = (5, 1, 0, 0)$ lies on line ℓ_0
- 6 : $P_{10} = (6, 1, 0, 0)$ lies on line ℓ_0
- 7 : $P_{11} = (7, 1, 0, 0)$ lies on line ℓ_0
- 8 : $P_{12} = (8, 1, 0, 0)$ lies on line ℓ_0
- 9 : $P_{13} = (9, 1, 0, 0)$ lies on line ℓ_0
- 10 : $P_{14} = (10, 1, 0, 0)$ lies on line ℓ_0
- 11 : $P_{15} = (11, 1, 0, 0)$ lies on line ℓ_0
- 12 : $P_{16} = (12, 1, 0, 0)$ lies on line ℓ_0
- 13 : $P_{17} = (13, 1, 0, 0)$ lies on line ℓ_0
- 14 : $P_{18} = (14, 1, 0, 0)$ lies on line ℓ_0
- 15 : $P_{19} = (15, 1, 0, 0)$ lies on line ℓ_0
- 16 : $P_{20} = (16, 1, 0, 0)$ lies on line ℓ_0
- 17 : $P_{21} = (17, 1, 0, 0)$ lies on line ℓ_0
- 18 : $P_{22} = (18, 1, 0, 0)$ lies on line ℓ_0
- 19 : $P_{23} = (19, 1, 0, 0)$ lies on line ℓ_0
- 20 : $P_{24} = (20, 1, 0, 0)$ lies on line ℓ_0
- 21 : $P_{25} = (21, 1, 0, 0)$ lies on line ℓ_0

- 22 : $P_{26} = (22, 1, 0, 0)$ lies on line ℓ_0
- 23 : $P_{27} = (23, 1, 0, 0)$ lies on line ℓ_0
- 24 : $P_{28} = (24, 1, 0, 0)$ lies on line ℓ_0
- 25 : $P_{29} = (25, 1, 0, 0)$ lies on line ℓ_0
- 26 : $P_{30} = (26, 1, 0, 0)$ lies on line ℓ_0
- 27 : $P_{31} = (27, 1, 0, 0)$ lies on line ℓ_0
- 28 : $P_{32} = (28, 1, 0, 0)$ lies on line ℓ_0
- 29 : $P_{33} = (29, 1, 0, 0)$ lies on line ℓ_0
- 30 : $P_{34} = (30, 1, 0, 0)$ lies on line ℓ_0
- 31 : $P_{35} = (31, 1, 0, 0)$ lies on line ℓ_0
- 32 : $P_{37} = (2, 0, 1, 0)$ lies on line ℓ_1
- 33 : $P_{38} = (3, 0, 1, 0)$ lies on line ℓ_1
- 34 : $P_{39} = (4, 0, 1, 0)$ lies on line ℓ_1
- 35 : $P_{40} = (5, 0, 1, 0)$ lies on line ℓ_1
- 36 : $P_{41} = (6, 0, 1, 0)$ lies on line ℓ_1
- 37 : $P_{42} = (7, 0, 1, 0)$ lies on line ℓ_1
- 38 : $P_{43} = (8, 0, 1, 0)$ lies on line ℓ_1
- 39 : $P_{44} = (9, 0, 1, 0)$ lies on line ℓ_1
- 40 : $P_{45} = (10, 0, 1, 0)$ lies on line ℓ_1
- 41 : $P_{46} = (11, 0, 1, 0)$ lies on line ℓ_1
- 42 : $P_{47} = (12, 0, 1, 0)$ lies on line ℓ_1
- 43 : $P_{48} = (13, 0, 1, 0)$ lies on line ℓ_1

44 : $P_{49} = (14, 0, 1, 0)$ lies on line ℓ_1
 45 : $P_{50} = (15, 0, 1, 0)$ lies on line ℓ_1
 46 : $P_{51} = (16, 0, 1, 0)$ lies on line ℓ_1
 47 : $P_{52} = (17, 0, 1, 0)$ lies on line ℓ_1
 48 : $P_{53} = (18, 0, 1, 0)$ lies on line ℓ_1
 49 : $P_{54} = (19, 0, 1, 0)$ lies on line ℓ_1
 50 : $P_{55} = (20, 0, 1, 0)$ lies on line ℓ_1
 51 : $P_{56} = (21, 0, 1, 0)$ lies on line ℓ_1
 52 : $P_{57} = (22, 0, 1, 0)$ lies on line ℓ_1
 53 : $P_{58} = (23, 0, 1, 0)$ lies on line ℓ_1
 54 : $P_{59} = (24, 0, 1, 0)$ lies on line ℓ_1
 55 : $P_{60} = (25, 0, 1, 0)$ lies on line ℓ_1
 56 : $P_{61} = (26, 0, 1, 0)$ lies on line ℓ_1
 57 : $P_{62} = (27, 0, 1, 0)$ lies on line ℓ_1
 58 : $P_{63} = (28, 0, 1, 0)$ lies on line ℓ_1
 59 : $P_{64} = (29, 0, 1, 0)$ lies on line ℓ_1
 60 : $P_{65} = (30, 0, 1, 0)$ lies on line ℓ_1
 61 : $P_{66} = (31, 0, 1, 0)$ lies on line ℓ_1
 62 : $P_{68} = (1, 1, 1, 0)$ lies on line ℓ_2
 63 : $P_{100} = (1, 2, 1, 0)$ lies on line ℓ_2
 64 : $P_{132} = (1, 3, 1, 0)$ lies on line ℓ_2
 65 : $P_{164} = (1, 4, 1, 0)$ lies on line ℓ_2
 66 : $P_{196} = (1, 5, 1, 0)$ lies on line ℓ_2
 67 : $P_{228} = (1, 6, 1, 0)$ lies on line ℓ_2
 68 : $P_{260} = (1, 7, 1, 0)$ lies on line ℓ_2
 69 : $P_{292} = (1, 8, 1, 0)$ lies on line ℓ_2
 70 : $P_{324} = (1, 9, 1, 0)$ lies on line ℓ_2
 71 : $P_{356} = (1, 10, 1, 0)$ lies on line ℓ_2
 72 : $P_{388} = (1, 11, 1, 0)$ lies on line ℓ_2
 73 : $P_{420} = (1, 12, 1, 0)$ lies on line ℓ_2
 74 : $P_{452} = (1, 13, 1, 0)$ lies on line ℓ_2
 75 : $P_{484} = (1, 14, 1, 0)$ lies on line ℓ_2
 76 : $P_{516} = (1, 15, 1, 0)$ lies on line ℓ_2
 77 : $P_{548} = (1, 16, 1, 0)$ lies on line ℓ_2
 78 : $P_{580} = (1, 17, 1, 0)$ lies on line ℓ_2
 79 : $P_{612} = (1, 18, 1, 0)$ lies on line ℓ_2
 80 : $P_{644} = (1, 19, 1, 0)$ lies on line ℓ_2
 81 : $P_{676} = (1, 20, 1, 0)$ lies on line ℓ_2
 82 : $P_{708} = (1, 21, 1, 0)$ lies on line ℓ_2
 83 : $P_{740} = (1, 22, 1, 0)$ lies on line ℓ_2
 84 : $P_{772} = (1, 23, 1, 0)$ lies on line ℓ_2
 85 : $P_{804} = (1, 24, 1, 0)$ lies on line ℓ_2
 86 : $P_{836} = (1, 25, 1, 0)$ lies on line ℓ_2
 87 : $P_{868} = (1, 26, 1, 0)$ lies on line ℓ_2
 88 : $P_{900} = (1, 27, 1, 0)$ lies on line ℓ_2
 89 : $P_{932} = (1, 28, 1, 0)$ lies on line ℓ_2
 90 : $P_{964} = (1, 29, 1, 0)$ lies on line ℓ_2
 91 : $P_{996} = (1, 30, 1, 0)$ lies on line ℓ_2
 92 : $P_{1028} = (1, 31, 1, 0)$ lies on line ℓ_2
 93 : $P_{1059} = (1, 0, 0, 1)$ lies on line ℓ_4
 94 : $P_{2082} = (0, 0, 1, 1)$ lies on line ℓ_3
 95 : $P_{2083} = (1, 0, 1, 1)$ lies on line ℓ_4
 96 : $P_{3105} = (0, 0, 2, 1)$ lies on line ℓ_3
 97 : $P_{3106} = (1, 0, 2, 1)$ lies on line ℓ_4

98 : $P_{4129} = (0, 0, 3, 1)$ lies on line ℓ_3
 99 : $P_{4130} = (1, 0, 3, 1)$ lies on line ℓ_4
 100 : $P_{5153} = (0, 0, 4, 1)$ lies on line ℓ_3
 101 : $P_{5154} = (1, 0, 4, 1)$ lies on line ℓ_4
 102 : $P_{6177} = (0, 0, 5, 1)$ lies on line ℓ_3
 103 : $P_{6178} = (1, 0, 5, 1)$ lies on line ℓ_4
 104 : $P_{7201} = (0, 0, 6, 1)$ lies on line ℓ_3
 105 : $P_{7202} = (1, 0, 6, 1)$ lies on line ℓ_4
 106 : $P_{8225} = (0, 0, 7, 1)$ lies on line ℓ_3
 107 : $P_{8226} = (1, 0, 7, 1)$ lies on line ℓ_4
 108 : $P_{9249} = (0, 0, 8, 1)$ lies on line ℓ_3
 109 : $P_{9250} = (1, 0, 8, 1)$ lies on line ℓ_4
 110 : $P_{10273} = (0, 0, 9, 1)$ lies on line ℓ_3
 111 : $P_{10274} = (1, 0, 9, 1)$ lies on line ℓ_4
 112 : $P_{11297} = (0, 0, 10, 1)$ lies on line ℓ_3
 113 : $P_{11298} = (1, 0, 10, 1)$ lies on line ℓ_4
 114 : $P_{12321} = (0, 0, 11, 1)$ lies on line ℓ_3
 115 : $P_{12322} = (1, 0, 11, 1)$ lies on line ℓ_4
 116 : $P_{13345} = (0, 0, 12, 1)$ lies on line ℓ_3
 117 : $P_{13346} = (1, 0, 12, 1)$ lies on line ℓ_4
 118 : $P_{14369} = (0, 0, 13, 1)$ lies on line ℓ_3
 119 : $P_{14370} = (1, 0, 13, 1)$ lies on line ℓ_4
 120 : $P_{15393} = (0, 0, 14, 1)$ lies on line ℓ_3
 121 : $P_{15394} = (1, 0, 14, 1)$ lies on line ℓ_4
 122 : $P_{16417} = (0, 0, 15, 1)$ lies on line ℓ_3
 123 : $P_{16418} = (1, 0, 15, 1)$ lies on line ℓ_4
 124 : $P_{17441} = (0, 0, 16, 1)$ lies on line ℓ_3
 125 : $P_{17442} = (1, 0, 16, 1)$ lies on line ℓ_4
 126 : $P_{18465} = (0, 0, 17, 1)$ lies on line ℓ_3
 127 : $P_{18466} = (1, 0, 17, 1)$ lies on line ℓ_4
 128 : $P_{19489} = (0, 0, 18, 1)$ lies on line ℓ_3
 129 : $P_{19490} = (1, 0, 18, 1)$ lies on line ℓ_4
 130 : $P_{20513} = (0, 0, 19, 1)$ lies on line ℓ_3
 131 : $P_{20514} = (1, 0, 19, 1)$ lies on line ℓ_4
 132 : $P_{21537} = (0, 0, 20, 1)$ lies on line ℓ_3
 133 : $P_{21538} = (1, 0, 20, 1)$ lies on line ℓ_4
 134 : $P_{22561} = (0, 0, 21, 1)$ lies on line ℓ_3
 135 : $P_{22562} = (1, 0, 21, 1)$ lies on line ℓ_4
 136 : $P_{23585} = (0, 0, 22, 1)$ lies on line ℓ_3
 137 : $P_{23586} = (1, 0, 22, 1)$ lies on line ℓ_4
 138 : $P_{24609} = (0, 0, 23, 1)$ lies on line ℓ_3
 139 : $P_{24610} = (1, 0, 23, 1)$ lies on line ℓ_4
 140 : $P_{25633} = (0, 0, 24, 1)$ lies on line ℓ_3
 141 : $P_{25634} = (1, 0, 24, 1)$ lies on line ℓ_4
 142 : $P_{26657} = (0, 0, 25, 1)$ lies on line ℓ_3
 143 : $P_{26658} = (1, 0, 25, 1)$ lies on line ℓ_4
 144 : $P_{27681} = (0, 0, 26, 1)$ lies on line ℓ_3
 145 : $P_{27682} = (1, 0, 26, 1)$ lies on line ℓ_4
 146 : $P_{28705} = (0, 0, 27, 1)$ lies on line ℓ_3
 147 : $P_{28706} = (1, 0, 27, 1)$ lies on line ℓ_4
 148 : $P_{29729} = (0, 0, 28, 1)$ lies on line ℓ_3
 149 : $P_{29730} = (1, 0, 28, 1)$ lies on line ℓ_4
 150 : $P_{30753} = (0, 0, 29, 1)$ lies on line ℓ_3
 151 : $P_{30754} = (1, 0, 29, 1)$ lies on line ℓ_4

152 : $P_{31777} = (0, 0, 30, 1)$ lies on line ℓ_3
 153 : $P_{31778} = (1, 0, 30, 1)$ lies on line ℓ_4
 154 : $P_{32801} = (0, 0, 31, 1)$ lies on line ℓ_3

155 : $P_{32802} = (1, 0, 31, 1)$ lies on line ℓ_4

The single points on the surface are:

Points on surface but on no line

The surface has 961 points not on any line:

The points on the surface but not on lines are:

0 : $P_{1132} = (10, 2, 0, 1)$	41 : $P_{2599} = (6, 16, 1, 1)$
1 : $P_{1133} = (11, 2, 0, 1)$	42 : $P_{2616} = (23, 16, 1, 1)$
2 : $P_{1200} = (14, 4, 0, 1)$	43 : $P_{2734} = (13, 20, 1, 1)$
3 : $P_{1201} = (15, 4, 0, 1)$	44 : $P_{2745} = (24, 20, 1, 1)$
4 : $P_{1254} = (4, 6, 0, 1)$	45 : $P_{2755} = (2, 21, 1, 1)$
5 : $P_{1255} = (5, 6, 0, 1)$	46 : $P_{2775} = (22, 21, 1, 1)$
6 : $P_{1374} = (28, 9, 0, 1)$	47 : $P_{2787} = (2, 22, 1, 1)$
7 : $P_{1375} = (29, 9, 0, 1)$	48 : $P_{2806} = (21, 22, 1, 1)$
8 : $P_{1432} = (22, 11, 0, 1)$	49 : $P_{2823} = (6, 23, 1, 1)$
9 : $P_{1433} = (23, 11, 0, 1)$	50 : $P_{2833} = (16, 23, 1, 1)$
10 : $P_{1492} = (18, 13, 0, 1)$	51 : $P_{2862} = (13, 24, 1, 1)$
11 : $P_{1493} = (19, 13, 0, 1)$	52 : $P_{2869} = (20, 24, 1, 1)$
12 : $P_{1562} = (24, 15, 0, 1)$	53 : $P_{2885} = (4, 25, 1, 1)$
13 : $P_{1563} = (25, 15, 0, 1)$	54 : $P_{2909} = (28, 25, 1, 1)$
14 : $P_{1600} = (30, 16, 0, 1)$	55 : $P_{2952} = (7, 27, 1, 1)$
15 : $P_{1601} = (31, 16, 0, 1)$	56 : $P_{2974} = (29, 27, 1, 1)$
16 : $P_{1654} = (20, 18, 0, 1)$	57 : $P_{2981} = (4, 28, 1, 1)$
17 : $P_{1655} = (21, 18, 0, 1)$	58 : $P_{3002} = (25, 28, 1, 1)$
18 : $P_{1714} = (16, 20, 0, 1)$	59 : $P_{3016} = (7, 29, 1, 1)$
19 : $P_{1715} = (17, 20, 0, 1)$	60 : $P_{3036} = (27, 29, 1, 1)$
20 : $P_{1788} = (26, 22, 0, 1)$	61 : $P_{3228} = (27, 3, 2, 1)$
21 : $P_{1789} = (27, 22, 0, 1)$	62 : $P_{3229} = (28, 3, 2, 1)$
22 : $P_{1860} = (2, 25, 0, 1)$	63 : $P_{3233} = (0, 4, 2, 1)$
23 : $P_{1861} = (3, 25, 0, 1)$	64 : $P_{3242} = (9, 4, 2, 1)$
24 : $P_{1930} = (8, 27, 0, 1)$	65 : $P_{3298} = (1, 6, 2, 1)$
25 : $P_{1931} = (9, 27, 0, 1)$	66 : $P_{3309} = (12, 6, 2, 1)$
26 : $P_{1998} = (12, 29, 0, 1)$	67 : $P_{3333} = (4, 7, 2, 1)$
27 : $P_{1999} = (13, 29, 0, 1)$	68 : $P_{3340} = (11, 7, 2, 1)$
28 : $P_{2056} = (6, 31, 0, 1)$	69 : $P_{3461} = (4, 11, 2, 1)$
29 : $P_{2057} = (7, 31, 0, 1)$	70 : $P_{3476} = (19, 11, 2, 1)$
30 : $P_{2114} = (0, 1, 1, 1)$	71 : $P_{3499} = (10, 12, 2, 1)$
31 : $P_{2166} = (21, 2, 1, 1)$	72 : $P_{3508} = (19, 12, 2, 1)$
32 : $P_{2167} = (22, 2, 1, 1)$	73 : $P_{3633} = (16, 16, 2, 1)$
33 : $P_{2234} = (25, 4, 1, 1)$	74 : $P_{3637} = (20, 16, 2, 1)$
34 : $P_{2237} = (28, 4, 1, 1)$	75 : $P_{3665} = (16, 17, 2, 1)$
35 : $P_{2289} = (16, 6, 1, 1)$	76 : $P_{3671} = (22, 17, 2, 1)$
36 : $P_{2296} = (23, 6, 1, 1)$	77 : $P_{3690} = (9, 18, 2, 1)$
37 : $P_{2332} = (27, 7, 1, 1)$	78 : $P_{3768} = (23, 20, 2, 1)$
38 : $P_{2334} = (29, 7, 1, 1)$	79 : $P_{3772} = (27, 20, 2, 1)$
39 : $P_{2517} = (20, 13, 1, 1)$	80 : $P_{3782} = (5, 21, 2, 1)$
40 : $P_{2521} = (24, 13, 1, 1)$	81 : $P_{3788} = (11, 21, 2, 1)$

82 : $P_{3907} = (2, 25, 2, 1)$	136 : $P_{5665} = (0, 16, 4, 1)$
83 : $P_{3925} = (20, 25, 2, 1)$	137 : $P_{5676} = (11, 16, 4, 1)$
84 : $P_{3949} = (12, 26, 2, 1)$	138 : $P_{5794} = (1, 20, 4, 1)$
85 : $P_{3965} = (28, 26, 2, 1)$	139 : $P_{5819} = (26, 20, 4, 1)$
86 : $P_{3974} = (5, 27, 2, 1)$	140 : $P_{5840} = (15, 21, 4, 1)$
87 : $P_{3992} = (23, 27, 2, 1)$	141 : $P_{5841} = (16, 21, 4, 1)$
88 : $P_{4011} = (10, 28, 2, 1)$	142 : $P_{5903} = (14, 23, 4, 1)$
89 : $P_{4023} = (22, 28, 2, 1)$	143 : $P_{5914} = (25, 23, 4, 1)$
90 : $P_{4234} = (9, 3, 3, 1)$	144 : $P_{5993} = (8, 26, 4, 1)$
91 : $P_{4238} = (13, 3, 3, 1)$	145 : $P_{5999} = (14, 26, 4, 1)$
92 : $P_{4289} = (0, 5, 3, 1)$	146 : $P_{6064} = (15, 28, 4, 1)$
93 : $P_{4303} = (14, 5, 3, 1)$	147 : $P_{6066} = (17, 28, 4, 1)$
94 : $P_{4322} = (1, 6, 3, 1)$	148 : $P_{6083} = (2, 29, 4, 1)$
95 : $P_{4331} = (10, 6, 3, 1)$	149 : $P_{6105} = (24, 29, 4, 1)$
96 : $P_{4397} = (12, 8, 3, 1)$	150 : $P_{6348} = (11, 5, 5, 1)$
97 : $P_{4406} = (21, 8, 3, 1)$	151 : $P_{6364} = (27, 5, 5, 1)$
98 : $P_{4457} = (8, 10, 3, 1)$	152 : $P_{6374} = (5, 6, 5, 1)$
99 : $P_{4472} = (23, 10, 3, 1)$	153 : $P_{6395} = (26, 6, 5, 1)$
100 : $P_{4686} = (13, 17, 3, 1)$	154 : $P_{6453} = (20, 8, 5, 1)$
101 : $P_{4699} = (26, 17, 3, 1)$	155 : $P_{6457} = (24, 8, 5, 1)$
102 : $P_{4719} = (14, 18, 3, 1)$	156 : $P_{6488} = (23, 9, 5, 1)$
103 : $P_{4733} = (28, 18, 3, 1)$	157 : $P_{6495} = (30, 9, 5, 1)$
104 : $P_{4743} = (6, 19, 3, 1)$	158 : $P_{6523} = (26, 10, 5, 1)$
105 : $P_{4760} = (23, 19, 3, 1)$	159 : $P_{6525} = (28, 10, 5, 1)$
106 : $P_{4803} = (2, 21, 3, 1)$	160 : $P_{6564} = (3, 12, 5, 1)$
107 : $P_{4826} = (25, 21, 3, 1)$	161 : $P_{6588} = (27, 12, 5, 1)$
108 : $P_{4835} = (2, 22, 3, 1)$	162 : $P_{6635} = (10, 14, 5, 1)$
109 : $P_{4861} = (28, 22, 3, 1)$	163 : $P_{6649} = (24, 14, 5, 1)$
110 : $P_{4873} = (8, 23, 3, 1)$	164 : $P_{6721} = (0, 17, 5, 1)$
111 : $P_{4886} = (21, 23, 3, 1)$	165 : $P_{6751} = (30, 17, 5, 1)$
112 : $P_{4932} = (3, 25, 3, 1)$	166 : $P_{6756} = (3, 18, 5, 1)$
113 : $P_{4941} = (12, 25, 3, 1)$	167 : $P_{6771} = (18, 18, 5, 1)$
114 : $P_{5031} = (6, 28, 3, 1)$	168 : $P_{6791} = (6, 19, 5, 1)$
115 : $P_{5066} = (9, 29, 3, 1)$	169 : $P_{6803} = (18, 19, 5, 1)$
116 : $P_{5067} = (10, 29, 3, 1)$	170 : $P_{6818} = (1, 20, 5, 1)$
117 : $P_{5114} = (25, 30, 3, 1)$	171 : $P_{6831} = (14, 20, 5, 1)$
118 : $P_{5120} = (31, 30, 3, 1)$	172 : $P_{6892} = (11, 22, 5, 1)$
119 : $P_{5147} = (26, 31, 3, 1)$	173 : $P_{6895} = (14, 22, 5, 1)$
120 : $P_{5152} = (31, 31, 3, 1)$	174 : $P_{6933} = (20, 23, 5, 1)$
121 : $P_{5234} = (17, 2, 4, 1)$	175 : $P_{6955} = (10, 24, 5, 1)$
122 : $P_{5241} = (24, 2, 4, 1)$	176 : $P_{6973} = (28, 24, 5, 1)$
123 : $P_{5272} = (23, 3, 4, 1)$	177 : $P_{6981} = (4, 25, 5, 1)$
124 : $P_{5275} = (26, 3, 4, 1)$	178 : $P_{7000} = (23, 25, 5, 1)$
125 : $P_{5315} = (2, 5, 4, 1)$	179 : $P_{7077} = (4, 28, 5, 1)$
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128 : $P_{5374} = (29, 6, 4, 1)$	182 : $P_{7390} = (29, 5, 6, 1)$
129 : $P_{5452} = (11, 9, 4, 1)$	183 : $P_{7429} = (4, 7, 6, 1)$
130 : $P_{5550} = (13, 12, 4, 1)$	184 : $P_{7448} = (23, 7, 6, 1)$
131 : $P_{5562} = (25, 12, 4, 1)$	185 : $P_{7465} = (8, 8, 6, 1)$
132 : $P_{5582} = (13, 13, 4, 1)$	186 : $P_{7485} = (28, 8, 6, 1)$
133 : $P_{5598} = (29, 13, 4, 1)$	187 : $P_{7497} = (8, 9, 6, 1)$
134 : $P_{5641} = (8, 15, 4, 1)$	188 : $P_{7515} = (26, 9, 6, 1)$
135 : $P_{5649} = (16, 15, 4, 1)$	189 : $P_{7534} = (13, 10, 6, 1)$

190 : $P_{7542} = (21, 10, 6, 1)$
 191 : $P_{7557} = (4, 11, 6, 1)$
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 193 : $P_{7588} = (3, 12, 6, 1)$
 194 : $P_{7600} = (15, 12, 6, 1)$
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 203 : $P_{7902} = (29, 21, 6, 1)$
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 296 : $P_{11211} = (10, 29, 9, 1)$
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298 : $P_{11250} = (17, 30, 9, 1)$	352 : $P_{13085} = (28, 23, 11, 1)$
299 : $P_{11280} = (15, 31, 9, 1)$	353 : $P_{13180} = (27, 26, 11, 1)$
300 : $P_{11283} = (18, 31, 9, 1)$	354 : $P_{13184} = (31, 26, 11, 1)$
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303 : $P_{11402} = (9, 3, 10, 1)$	357 : $P_{13232} = (15, 28, 11, 1)$
304 : $P_{11415} = (22, 3, 10, 1)$	358 : $P_{13237} = (20, 28, 11, 1)$
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306 : $P_{11438} = (13, 4, 10, 1)$	360 : $P_{13458} = (17, 3, 12, 1)$
307 : $P_{11473} = (16, 5, 10, 1)$	361 : $P_{13556} = (19, 6, 12, 1)$
308 : $P_{11479} = (22, 5, 10, 1)$	362 : $P_{13568} = (31, 6, 12, 1)$
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310 : $P_{11698} = (17, 12, 10, 1)$	364 : $P_{13676} = (11, 10, 12, 1)$
311 : $P_{11745} = (0, 14, 10, 1)$	365 : $P_{13694} = (29, 10, 12, 1)$
312 : $P_{11747} = (2, 14, 10, 1)$	366 : $P_{13708} = (11, 11, 12, 1)$
313 : $P_{11848} = (7, 17, 10, 1)$	367 : $P_{13714} = (17, 11, 12, 1)$
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315 : $P_{11892} = (19, 18, 10, 1)$	369 : $P_{13760} = (31, 12, 12, 1)$
316 : $P_{11896} = (23, 18, 10, 1)$	370 : $P_{13814} = (21, 14, 12, 1)$
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318 : $P_{11934} = (29, 19, 10, 1)$	372 : $P_{13832} = (7, 15, 12, 1)$
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320 : $P_{11968} = (31, 20, 10, 1)$	374 : $P_{13974} = (21, 19, 12, 1)$
321 : $P_{12046} = (13, 23, 10, 1)$	375 : $P_{13983} = (30, 19, 12, 1)$
322 : $P_{12047} = (14, 23, 10, 1)$	376 : $P_{13992} = (7, 20, 12, 1)$
323 : $P_{12114} = (17, 25, 10, 1)$	377 : $P_{13998} = (13, 20, 12, 1)$
324 : $P_{12143} = (14, 26, 10, 1)$	378 : $P_{14041} = (24, 21, 12, 1)$
325 : $P_{12145} = (16, 26, 10, 1)$	379 : $P_{14047} = (30, 21, 12, 1)$
326 : $P_{12229} = (4, 29, 10, 1)$	380 : $P_{14050} = (1, 22, 12, 1)$
327 : $P_{12234} = (9, 29, 10, 1)$	381 : $P_{14068} = (19, 22, 12, 1)$
328 : $P_{12261} = (4, 30, 10, 1)$	382 : $P_{14126} = (13, 24, 12, 1)$
329 : $P_{12280} = (23, 30, 10, 1)$	383 : $P_{14142} = (29, 24, 12, 1)$
330 : $P_{12396} = (11, 2, 11, 1)$	384 : $P_{14177} = (0, 26, 12, 1)$
331 : $P_{12413} = (28, 2, 11, 1)$	385 : $P_{14185} = (8, 26, 12, 1)$
332 : $P_{12450} = (1, 4, 11, 1)$	386 : $P_{14278} = (5, 29, 12, 1)$
333 : $P_{12458} = (9, 4, 11, 1)$	387 : $P_{14285} = (12, 29, 12, 1)$
334 : $P_{12557} = (12, 7, 11, 1)$	388 : $P_{14310} = (5, 30, 12, 1)$
335 : $P_{12570} = (25, 7, 11, 1)$	389 : $P_{14329} = (24, 30, 12, 1)$
336 : $P_{12649} = (8, 10, 11, 1)$	390 : $P_{14435} = (2, 2, 13, 1)$
337 : $P_{12654} = (13, 10, 11, 1)$	391 : $P_{14458} = (25, 2, 13, 1)$
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339 : $P_{12808} = (7, 15, 11, 1)$	393 : $P_{14485} = (20, 3, 13, 1)$
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 947 : $P_{33344} = (31, 16, 31, 1)$
 948 : $P_{33377} = (0, 18, 31, 1)$
 949 : $P_{33405} = (28, 18, 31, 1)$
 950 : $P_{33524} = (19, 22, 31, 1)$
 951 : $P_{33533} = (28, 22, 31, 1)$
 952 : $P_{33539} = (2, 23, 31, 1)$
 953 : $P_{33555} = (18, 23, 31, 1)$

954 : $P_{33587} = (18, 24, 31, 1)$
 955 : $P_{33591} = (22, 24, 31, 1)$
 956 : $P_{33685} = (20, 27, 31, 1)$
 957 : $P_{33700} = (3, 28, 31, 1)$
 958 : $P_{33717} = (20, 28, 31, 1)$
 959 : $P_{33763} = (2, 30, 31, 1)$
 960 : $P_{33775} = (14, 30, 31, 1)$

Line Intersection Graph

	0	1	2	3	4
0	0	1	1	0	0
1	1	0	1	1	1
2	1	1	0	0	0
3	0	1	0	0	1
4	0	1	0	1	0

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	ℓ_1	ℓ_2
in point	P_0	P_1

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4
in point	P_0	P_{36}	P_2	P_2

Line 2 intersects

Line	ℓ_0	ℓ_1
in point	P_1	P_{36}

Line 3 intersects

Line	ℓ_1	ℓ_4
in point	P_2	P_2

Line 4 intersects

Line	ℓ_1	ℓ_3
in point	P_2	P_2

The surface has 1121 points:

Too many to print.