Rank-67115 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_3^3 + X_0^2X_2 + X_1^2X_3 + X_0X_2^2 + X_0X_1X_2 = 0$$

(0, 0, 0, 1, 0, 1, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is 1141965861

General information

Number of lines	6
Number of points	1089
Number of singular points	3
Number of Eckardt points	0
Number of double points	9
Number of single points	180
Number of points off lines	900
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^6
Type of lines on points	2^9, 1^{180}, 0^{900}

Singular Points

The surface has 3 singular points:

$0: P_{1090} = \mathbf{P}(0,1,0,1) = \mathbf{P}(0,1,0,1)$
$1: P_{1091} = \mathbf{P}(1,1,0,1) = \mathbf{P}(1,1,0,1)$
$2: P_{2114} = \mathbf{P}(0,1,1,1) = \mathbf{P}(0,1,1,1)$

The 6 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \mathbf{Pl}(1,0,0,0,0,0)_0$$

$$\ell_1 = \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 \end{array}\right]_{1058} = \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 \end{array}\right]_{1058} = \mathbf{Pl}(1,0,1,0,0,1)_{34913}$$

$$\ell_2 = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{array}\right]_{1082368} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{array}\right]_{1082368} = \mathbf{Pl}(0,0,0,0,0,1)_{34849}$$

$$\ell_3 = \left[\begin{array}{cccc} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 \end{array}\right]_{32} = \left[\begin{array}{cccc} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 \end{array}\right]_{32} = \mathbf{Pl}(1,0,0,0,1,0)_{1090}$$

$$\ell_4 = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{array}\right]_{1082401} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{array}\right]_{1082401} = \mathbf{Pl}(0,1,0,0,0,1)_{34881}$$

$$\ell_5 = \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 1 \end{array}\right]_{1090} = \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 1 \end{array}\right]_{1090} = \mathbf{Pl}(1,1,1,0,1,1)_{68640}$$

Rank of lines: (0, 1058, 1082368, 32, 1082401, 1090)
Rank of points on Klein quadric: (0, 34913, 34849, 1090, 34881, 68640)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 9 Double points:
The double points on the surface are:

$P_5 = (1,1,0,0) = \ell_0 \cap \ell_1$
$P_1 = (0,1,0,0) = \ell_0 \cap \ell_2$
$P_0 = (1,0,0,0) = \ell_0 \cap \ell_3$
$P_{67} = (0,1,1,0) = \ell_1 \cap \ell_2$
$P_{36} = (1,0,1,0) = \ell_1 \cap \ell_5$
$P_2 = (0,0,1,0) = \ell_2 \cap \ell_4$
$P_{1090} = (0,1,0,1) = \ell_3 \cap \ell_4$
$P_{1091} = (1,1,0,1) = \ell_3 \cap \ell_5$
$P_{2114} = (0,1,1,1) = \ell_4 \cap \ell_5$

Single Points

The surface has 180 single points:
The single points on the surface are:

0 : $P_6 = (2,1,0,0)$ lies on line ℓ_0
1 : $P_7 = (3,1,0,0)$ lies on line ℓ_0
2 : $P_8 = (4,1,0,0)$ lies on line ℓ_0
3 : $P_9 = (5,1,0,0)$ lies on line ℓ_0
4 : $P_{10} = (6,1,0,0)$ lies on line ℓ_0
5 : $P_{11} = (7,1,0,0)$ lies on line ℓ_0
6 : $P_{12} = (8,1,0,0)$ lies on line ℓ_0
7 : $P_{13} = (9,1,0,0)$ lies on line ℓ_0
8 : $P_{14} = (10,1,0,0)$ lies on line ℓ_0
9 : $P_{15} = (11,1,0,0)$ lies on line ℓ_0
10 : $P_{16} = (12,1,0,0)$ lies on line ℓ_0
11 : $P_{17} = (13,1,0,0)$ lies on line ℓ_0
12 : $P_{18} = (14,1,0,0)$ lies on line ℓ_0
13 : $P_{19} = (15,1,0,0)$ lies on line ℓ_0
14 : $P_{20} = (16,1,0,0)$ lies on line ℓ_0
15 : $P_{21} = (17,1,0,0)$ lies on line ℓ_0
16 : $P_{22} = (18,1,0,0)$ lies on line ℓ_0
17 : $P_{23} = (19,1,0,0)$ lies on line ℓ_0
18 : $P_{24} = (20,1,0,0)$ lies on line ℓ_0
19 : $P_{25} = (21,1,0,0)$ lies on line ℓ_0
20 : $P_{26} = (22,1,0,0)$ lies on line ℓ_0
21 : $P_{27} = (23,1,0,0)$ lies on line ℓ_0
22 : $P_{28} = (24,1,0,0)$ lies on line ℓ_0
23 : $P_{29} = (25,1,0,0)$ lies on line ℓ_0
24 : $P_{30} = (26,1,0,0)$ lies on line ℓ_0
25 : $P_{31} = (27,1,0,0)$ lies on line ℓ_0
26 : $P_{32} = (28,1,0,0)$ lies on line ℓ_0
27 : $P_{33} = (29,1,0,0)$ lies on line ℓ_0
28 : $P_{34} = (30,1,0,0)$ lies on line ℓ_0
29 : $P_{35} = (31,1,0,0)$ lies on line ℓ_0

30 : $P_{99} = (0, 2, 1, 0)$ lies on line ℓ_2
31 : $P_{102} = (3, 2, 1, 0)$ lies on line ℓ_1
32 : $P_{131} = (0, 3, 1, 0)$ lies on line ℓ_2
33 : $P_{133} = (2, 3, 1, 0)$ lies on line ℓ_1
34 : $P_{163} = (0, 4, 1, 0)$ lies on line ℓ_2
35 : $P_{168} = (5, 4, 1, 0)$ lies on line ℓ_1
36 : $P_{195} = (0, 5, 1, 0)$ lies on line ℓ_2
37 : $P_{199} = (4, 5, 1, 0)$ lies on line ℓ_1
38 : $P_{227} = (0, 6, 1, 0)$ lies on line ℓ_2
39 : $P_{234} = (7, 6, 1, 0)$ lies on line ℓ_1
40 : $P_{259} = (0, 7, 1, 0)$ lies on line ℓ_2
41 : $P_{265} = (6, 7, 1, 0)$ lies on line ℓ_1
42 : $P_{291} = (0, 8, 1, 0)$ lies on line ℓ_2
43 : $P_{300} = (9, 8, 1, 0)$ lies on line ℓ_1
44 : $P_{323} = (0, 9, 1, 0)$ lies on line ℓ_2
45 : $P_{331} = (8, 9, 1, 0)$ lies on line ℓ_1
46 : $P_{355} = (0, 10, 1, 0)$ lies on line ℓ_2
47 : $P_{366} = (11, 10, 1, 0)$ lies on line ℓ_1
48 : $P_{387} = (0, 11, 1, 0)$ lies on line ℓ_2
49 : $P_{397} = (10, 11, 1, 0)$ lies on line ℓ_1
50 : $P_{419} = (0, 12, 1, 0)$ lies on line ℓ_2
51 : $P_{432} = (13, 12, 1, 0)$ lies on line ℓ_1
52 : $P_{451} = (0, 13, 1, 0)$ lies on line ℓ_2
53 : $P_{463} = (12, 13, 1, 0)$ lies on line ℓ_1
54 : $P_{483} = (0, 14, 1, 0)$ lies on line ℓ_2
55 : $P_{498} = (15, 14, 1, 0)$ lies on line ℓ_1
56 : $P_{515} = (0, 15, 1, 0)$ lies on line ℓ_2
57 : $P_{529} = (14, 15, 1, 0)$ lies on line ℓ_1
58 : $P_{547} = (0, 16, 1, 0)$ lies on line ℓ_2
59 : $P_{564} = (17, 16, 1, 0)$ lies on line ℓ_1
60 : $P_{579} = (0, 17, 1, 0)$ lies on line ℓ_2
61 : $P_{595} = (16, 17, 1, 0)$ lies on line ℓ_1
62 : $P_{611} = (0, 18, 1, 0)$ lies on line ℓ_2
63 : $P_{630} = (19, 18, 1, 0)$ lies on line ℓ_1
64 : $P_{643} = (0, 19, 1, 0)$ lies on line ℓ_2
65 : $P_{661} = (18, 19, 1, 0)$ lies on line ℓ_1
66 : $P_{675} = (0, 20, 1, 0)$ lies on line ℓ_2
67 : $P_{696} = (21, 20, 1, 0)$ lies on line ℓ_1
68 : $P_{707} = (0, 21, 1, 0)$ lies on line ℓ_2
69 : $P_{727} = (20, 21, 1, 0)$ lies on line ℓ_1
70 : $P_{739} = (0, 22, 1, 0)$ lies on line ℓ_2
71 : $P_{762} = (23, 22, 1, 0)$ lies on line ℓ_1
72 : $P_{771} = (0, 23, 1, 0)$ lies on line ℓ_2
73 : $P_{793} = (22, 23, 1, 0)$ lies on line ℓ_1
74 : $P_{803} = (0, 24, 1, 0)$ lies on line ℓ_2
75 : $P_{828} = (25, 24, 1, 0)$ lies on line ℓ_1
76 : $P_{835} = (0, 25, 1, 0)$ lies on line ℓ_2
77 : $P_{859} = (24, 25, 1, 0)$ lies on line ℓ_1
78 : $P_{867} = (0, 26, 1, 0)$ lies on line ℓ_2
79 : $P_{894} = (27, 26, 1, 0)$ lies on line ℓ_1
80 : $P_{899} = (0, 27, 1, 0)$ lies on line ℓ_2
81 : $P_{925} = (26, 27, 1, 0)$ lies on line ℓ_1
82 : $P_{931} = (0, 28, 1, 0)$ lies on line ℓ_2
83 : $P_{960} = (29, 28, 1, 0)$ lies on line ℓ_1
84 : $P_{963} = (0, 29, 1, 0)$ lies on line ℓ_2
85 : $P_{991} = (28, 29, 1, 0)$ lies on line ℓ_1
86 : $P_{995} = (0, 30, 1, 0)$ lies on line ℓ_2
87 : $P_{1026} = (31, 30, 1, 0)$ lies on line ℓ_1
88 : $P_{1027} = (0, 31, 1, 0)$ lies on line ℓ_2
89 : $P_{1057} = (30, 31, 1, 0)$ lies on line ℓ_1
90 : $P_{1092} = (2, 1, 0, 1)$ lies on line ℓ_3
91 : $P_{1093} = (3, 1, 0, 1)$ lies on line ℓ_3
92 : $P_{1094} = (4, 1, 0, 1)$ lies on line ℓ_3
93 : $P_{1095} = (5, 1, 0, 1)$ lies on line ℓ_3
94 : $P_{1096} = (6, 1, 0, 1)$ lies on line ℓ_3
95 : $P_{1097} = (7, 1, 0, 1)$ lies on line ℓ_3
96 : $P_{1098} = (8, 1, 0, 1)$ lies on line ℓ_3
97 : $P_{1099} = (9, 1, 0, 1)$ lies on line ℓ_3
98 : $P_{1100} = (10, 1, 0, 1)$ lies on line ℓ_3
99 : $P_{1101} = (11, 1, 0, 1)$ lies on line ℓ_3
100 : $P_{1102} = (12, 1, 0, 1)$ lies on line ℓ_3
101 : $P_{1103} = (13, 1, 0, 1)$ lies on line ℓ_3
102 : $P_{1104} = (14, 1, 0, 1)$ lies on line ℓ_3
103 : $P_{1105} = (15, 1, 0, 1)$ lies on line ℓ_3
104 : $P_{1106} = (16, 1, 0, 1)$ lies on line ℓ_3
105 : $P_{1107} = (17, 1, 0, 1)$ lies on line ℓ_3
106 : $P_{1108} = (18, 1, 0, 1)$ lies on line ℓ_3
107 : $P_{1109} = (19, 1, 0, 1)$ lies on line ℓ_3
108 : $P_{1110} = (20, 1, 0, 1)$ lies on line ℓ_3
109 : $P_{1111} = (21, 1, 0, 1)$ lies on line ℓ_3
110 : $P_{1112} = (22, 1, 0, 1)$ lies on line ℓ_3
111 : $P_{1113} = (23, 1, 0, 1)$ lies on line ℓ_3
112 : $P_{1114} = (24, 1, 0, 1)$ lies on line ℓ_3
113 : $P_{1115} = (25, 1, 0, 1)$ lies on line ℓ_3
114 : $P_{1116} = (26, 1, 0, 1)$ lies on line ℓ_3
115 : $P_{1117} = (27, 1, 0, 1)$ lies on line ℓ_3
116 : $P_{1118} = (28, 1, 0, 1)$ lies on line ℓ_3
117 : $P_{1119} = (29, 1, 0, 1)$ lies on line ℓ_3
118 : $P_{1120} = (30, 1, 0, 1)$ lies on line ℓ_3
119 : $P_{1121} = (31, 1, 0, 1)$ lies on line ℓ_3
120 : $P_{3137} = (0, 1, 2, 1)$ lies on line ℓ_4
121 : $P_{3140} = (3, 1, 2, 1)$ lies on line ℓ_5
122 : $P_{4161} = (0, 1, 3, 1)$ lies on line ℓ_4
123 : $P_{4163} = (2, 1, 3, 1)$ lies on line ℓ_5
124 : $P_{5185} = (0, 1, 4, 1)$ lies on line ℓ_4
125 : $P_{5190} = (5, 1, 4, 1)$ lies on line ℓ_5
126 : $P_{6209} = (0, 1, 5, 1)$ lies on line ℓ_4
127 : $P_{6213} = (4, 1, 5, 1)$ lies on line ℓ_5
128 : $P_{7233} = (0, 1, 6, 1)$ lies on line ℓ_4
129 : $P_{7240} = (7, 1, 6, 1)$ lies on line ℓ_5
130 : $P_{8257} = (0, 1, 7, 1)$ lies on line ℓ_4
131 : $P_{8263} = (6, 1, 7, 1)$ lies on line ℓ_5
132 : $P_{9281} = (0, 1, 8, 1)$ lies on line ℓ_4
133 : $P_{9290} = (9, 1, 8, 1)$ lies on line ℓ_5
134 : $P_{10305} = (0, 1, 9, 1)$ lies on line ℓ_4
135 : $P_{10313} = (8, 1, 9, 1)$ lies on line ℓ_5
136 : $P_{11329} = (0, 1, 10, 1)$ lies on line ℓ_4
137 : $P_{11340} = (11, 1, 10, 1)$ lies on line ℓ_5

138 : $P_{12353} = (0, 1, 11, 1)$ lies on line ℓ_4
139 : $P_{12363} = (10, 1, 11, 1)$ lies on line ℓ_5
140 : $P_{13377} = (0, 1, 12, 1)$ lies on line ℓ_4
141 : $P_{13390} = (13, 1, 12, 1)$ lies on line ℓ_5
142 : $P_{14401} = (0, 1, 13, 1)$ lies on line ℓ_4
143 : $P_{14413} = (12, 1, 13, 1)$ lies on line ℓ_5
144 : $P_{15425} = (0, 1, 14, 1)$ lies on line ℓ_4
145 : $P_{15440} = (15, 1, 14, 1)$ lies on line ℓ_5
146 : $P_{16449} = (0, 1, 15, 1)$ lies on line ℓ_4
147 : $P_{16463} = (14, 1, 15, 1)$ lies on line ℓ_5
148 : $P_{17473} = (0, 1, 16, 1)$ lies on line ℓ_4
149 : $P_{17490} = (17, 1, 16, 1)$ lies on line ℓ_5
150 : $P_{18497} = (0, 1, 17, 1)$ lies on line ℓ_4
151 : $P_{18513} = (16, 1, 17, 1)$ lies on line ℓ_5
152 : $P_{19521} = (0, 1, 18, 1)$ lies on line ℓ_4
153 : $P_{19540} = (19, 1, 18, 1)$ lies on line ℓ_5
154 : $P_{20545} = (0, 1, 19, 1)$ lies on line ℓ_4
155 : $P_{20563} = (18, 1, 19, 1)$ lies on line ℓ_5
156 : $P_{21569} = (0, 1, 20, 1)$ lies on line ℓ_4
157 : $P_{21590} = (21, 1, 20, 1)$ lies on line ℓ_5
158 : $P_{22593} = (0, 1, 21, 1)$ lies on line ℓ_4
159 : $P_{22613} = (20, 1, 21, 1)$ lies on line ℓ_5
160 : $P_{23617} = (0, 1, 22, 1)$ lies on line ℓ_4
161 : $P_{23640} = (23, 1, 22, 1)$ lies on line ℓ_5
162 : $P_{24641} = (0, 1, 23, 1)$ lies on line ℓ_4
163 : $P_{24663} = (22, 1, 23, 1)$ lies on line ℓ_5
164 : $P_{25665} = (0, 1, 24, 1)$ lies on line ℓ_4
165 : $P_{25690} = (25, 1, 24, 1)$ lies on line ℓ_5
166 : $P_{26689} = (0, 1, 25, 1)$ lies on line ℓ_4
167 : $P_{26713} = (24, 1, 25, 1)$ lies on line ℓ_5
168 : $P_{27713} = (0, 1, 26, 1)$ lies on line ℓ_4
169 : $P_{27740} = (27, 1, 26, 1)$ lies on line ℓ_5
170 : $P_{28737} = (0, 1, 27, 1)$ lies on line ℓ_4
171 : $P_{28763} = (26, 1, 27, 1)$ lies on line ℓ_5
172 : $P_{29761} = (0, 1, 28, 1)$ lies on line ℓ_4
173 : $P_{29790} = (29, 1, 28, 1)$ lies on line ℓ_5
174 : $P_{30785} = (0, 1, 29, 1)$ lies on line ℓ_4
175 : $P_{30813} = (28, 1, 29, 1)$ lies on line ℓ_5
176 : $P_{31809} = (0, 1, 30, 1)$ lies on line ℓ_4
177 : $P_{31840} = (31, 1, 30, 1)$ lies on line ℓ_5
178 : $P_{32833} = (0, 1, 31, 1)$ lies on line ℓ_4
179 : $P_{32863} = (30, 1, 31, 1)$ lies on line ℓ_5

The single points on the surface are:

Points on surface but on no line

The surface has 900 points not on any line:
The points on the surface but not on lines are:

0 : $P_{3129} = (24, 0, 2, 1)$
1 : $P_{3131} = (26, 0, 2, 1)$
2 : $P_{3173} = (4, 2, 2, 1)$
3 : $P_{3209} = (8, 3, 2, 1)$
4 : $P_{3210} = (9, 3, 2, 1)$
5 : $P_{3258} = (25, 4, 2, 1)$
6 : $P_{3264} = (31, 4, 2, 1)$
7 : $P_{3332} = (3, 7, 2, 1)$
8 : $P_{3335} = (6, 7, 2, 1)$
9 : $P_{3378} = (17, 8, 2, 1)$
10 : $P_{3388} = (27, 8, 2, 1)$
11 : $P_{3429} = (4, 10, 2, 1)$
12 : $P_{3437} = (12, 10, 2, 1)$
13 : $P_{3463} = (6, 11, 2, 1)$
14 : $P_{3472} = (15, 11, 2, 1)$
15 : $P_{3602} = (17, 15, 2, 1)$
16 : $P_{3613} = (28, 15, 2, 1)$
17 : $P_{3658} = (9, 17, 2, 1)$
18 : $P_{3675} = (26, 17, 2, 1)$
19 : $P_{3693} = (12, 18, 2, 1)$
20 : $P_{3709} = (28, 18, 2, 1)$
21 : $P_{3721} = (8, 19, 2, 1)$
22 : $P_{3738} = (25, 19, 2, 1)$
23 : $P_{3792} = (15, 21, 2, 1)$
24 : $P_{3801} = (24, 21, 2, 1)$
25 : $P_{3971} = (2, 27, 2, 1)$
26 : $P_{3996} = (27, 27, 2, 1)$
27 : $P_{4099} = (2, 31, 2, 1)$
28 : $P_{4128} = (31, 31, 2, 1)$
29 : $P_{4133} = (4, 0, 3, 1)$
30 : $P_{4136} = (7, 0, 3, 1)$
31 : $P_{4240} = (15, 3, 3, 1)$
32 : $P_{4283} = (26, 4, 3, 1)$
33 : $P_{4286} = (29, 4, 3, 1)$
34 : $P_{4345} = (24, 6, 3, 1)$
35 : $P_{4350} = (29, 6, 3, 1)$
36 : $P_{4355} = (2, 7, 3, 1)$
37 : $P_{4359} = (6, 7, 3, 1)$
38 : $P_{4424} = (7, 9, 3, 1)$
39 : $P_{4430} = (13, 9, 3, 1)$
40 : $P_{4497} = (16, 11, 3, 1)$
41 : $P_{4505} = (24, 11, 3, 1)$
42 : $P_{4517} = (4, 12, 3, 1)$
43 : $P_{4524} = (11, 12, 3, 1)$

$44: P_{4551} = (6, 13, 3, 1)$
$45: P_{4553} = (8, 13, 3, 1)$
$46: P_{4631} = (22, 15, 3, 1)$
$47: P_{4635} = (26, 15, 3, 1)$
$48: P_{4646} = (5, 16, 3, 1)$
$49: P_{4663} = (22, 16, 3, 1)$
$50: P_{4684} = (11, 17, 3, 1)$
$51: P_{4698} = (25, 17, 3, 1)$
$52: P_{4720} = (15, 18, 3, 1)$
$53: P_{4735} = (30, 18, 3, 1)$
$54: P_{4809} = (8, 21, 3, 1)$
$55: P_{4831} = (30, 21, 3, 1)$
$56: P_{5102} = (13, 30, 3, 1)$
$57: P_{5105} = (16, 30, 3, 1)$
$58: P_{5126} = (5, 31, 3, 1)$
$59: P_{5146} = (25, 31, 3, 1)$
$60: P_{5156} = (3, 0, 4, 1)$
$61: P_{5160} = (7, 0, 4, 1)$
$62: P_{5219} = (2, 2, 4, 1)$
$63: P_{5221} = (4, 2, 4, 1)$
$64: P_{5297} = (16, 4, 4, 1)$
$65: P_{5323} = (10, 5, 4, 1)$
$66: P_{5324} = (11, 5, 4, 1)$
$67: P_{5415} = (6, 8, 4, 1)$
$68: P_{5419} = (10, 8, 4, 1)$
$69: P_{5464} = (23, 9, 4, 1)$
$70: P_{5467} = (26, 9, 4, 1)$
$71: P_{5475} = (2, 10, 4, 1)$
$72: P_{5485} = (12, 10, 4, 1)$
$73: P_{5540} = (3, 12, 4, 1)$
$74: P_{5548} = (11, 12, 4, 1)$
$75: P_{5617} = (16, 14, 4, 1)$
$76: P_{5627} = (26, 14, 4, 1)$
$77: P_{5653} = (20, 15, 4, 1)$
$78: P_{5664} = (31, 15, 4, 1)$
$79: P_{5671} = (6, 16, 4, 1)$
$80: P_{5683} = (18, 16, 4, 1)$
$81: P_{5733} = (4, 18, 4, 1)$
$82: P_{5747} = (18, 18, 4, 1)$
$83: P_{5830} = (5, 21, 4, 1)$
$84: P_{5845} = (20, 21, 4, 1)$
$85: P_{6056} = (7, 28, 4, 1)$
$86: P_{6080} = (31, 28, 4, 1)$
$87: P_{6157} = (12, 31, 4, 1)$
$88: P_{6168} = (23, 31, 4, 1)$
$89: P_{6193} = (16, 0, 5, 1)$
$90: P_{6198} = (21, 0, 5, 1)$
$91: P_{6368} = (31, 5, 5, 1)$
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500 : $P_{20348} = (27, 26, 18, 1)$
501 : $P_{20376} = (23, 27, 18, 1)$
502 : $P_{20383} = (30, 27, 18, 1)$
503 : $P_{20497} = (16, 31, 18, 1)$
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506 : $P_{20601} = (24, 2, 19, 1)$
507 : $P_{20615} = (6, 3, 19, 1)$
508 : $P_{20631} = (22, 3, 19, 1)$
509 : $P_{20711} = (6, 6, 19, 1)$
510 : $P_{20724} = (19, 6, 19, 1)$
511 : $P_{20751} = (14, 7, 19, 1)$
512 : $P_{20763} = (26, 7, 19, 1)$
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514 : $P_{20832} = (31, 9, 19, 1)$
515 : $P_{20872} = (7, 11, 19, 1)$
516 : $P_{20896} = (31, 11, 19, 1)$
517 : $P_{20975} = (14, 14, 19, 1)$
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525 : $P_{21278} = (29, 23, 19, 1)$
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527 : $P_{21372} = (27, 26, 19, 1)$
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531 : $P_{21450} = (9, 29, 19, 1)$
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541 : $P_{21814} = (21, 8, 20, 1)$
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543 : $P_{21842} = (17, 9, 20, 1)$
544 : $P_{21871} = (14, 10, 20, 1)$
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547 : $P_{21943} = (22, 12, 20, 1)$
548 : $P_{21962} = (9, 13, 20, 1)$
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566 : $P_{22577} = (16, 0, 21, 1)$
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576 : $P_{22940} = (27, 11, 21, 1)$
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582 : $P_{23059} = (18, 15, 21, 1)$
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584 : $P_{23088} = (15, 16, 21, 1)$
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586 : $P_{23273} = (8, 22, 21, 1)$
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591 : $P_{23514} = (25, 29, 21, 1)$
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593 : $P_{23549} = (28, 30, 21, 1)$
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597 : $P_{23676} = (27, 2, 22, 1)$
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603 : $P_{23771} = (26, 5, 22, 1)$
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605 : $P_{23989} = (20, 12, 22, 1)$
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607 : $P_{24056} = (23, 14, 22, 1)$
608 : $P_{24068} = (3, 15, 22, 1)$
609 : $P_{24091} = (26, 15, 22, 1)$
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611 : $P_{24102} = (5, 16, 22, 1)$
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613 : $P_{24174} = (13, 18, 22, 1)$
614 : $P_{24230} = (5, 20, 22, 1)$
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616 : $P_{24303} = (14, 22, 22, 1)$
617 : $P_{24333} = (12, 23, 22, 1)$
618 : $P_{24334} = (13, 23, 22, 1)$
619 : $P_{24359} = (6, 24, 22, 1)$
620 : $P_{24361} = (8, 24, 22, 1)$
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624 : $P_{24511} = (30, 28, 22, 1)$
625 : $P_{24564} = (19, 30, 22, 1)$
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628 : $P_{24636} = (27, 0, 23, 1)$
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632 : $P_{24832} = (31, 6, 23, 1)$
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636 : $P_{24889} = (24, 8, 23, 1)$
637 : $P_{24901} = (4, 9, 23, 1)$
638 : $P_{24923} = (26, 9, 23, 1)$
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642 : $P_{25079} = (22, 14, 23, 1)$
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646 : $P_{25245} = (28, 19, 23, 1)$
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652 : $P_{25557} = (20, 29, 23, 1)$
653 : $P_{25567} = (30, 29, 23, 1)$
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659 : $P_{25659} = (26, 0, 24, 1)$
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668 : $P_{25936} = (15, 9, 24, 1)$
669 : $P_{25951} = (30, 9, 24, 1)$
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671 : $P_{25974} = (21, 10, 24, 1)$
672 : $P_{25988} = (3, 11, 24, 1)$
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674 : $P_{26225} = (16, 18, 24, 1)$
675 : $P_{26235} = (26, 18, 24, 1)$
676 : $P_{26264} = (23, 19, 24, 1)$
677 : $P_{26269} = (28, 19, 24, 1)$
678 : $P_{26291} = (18, 20, 24, 1)$
679 : $P_{26303} = (30, 20, 24, 1)$
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681 : $P_{26320} = (15, 21, 24, 1)$
682 : $P_{26356} = (19, 22, 24, 1)$
683 : $P_{26366} = (29, 22, 24, 1)$
684 : $P_{26419} = (18, 24, 24, 1)$
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686 : $P_{26528} = (31, 27, 24, 1)$
687 : $P_{26618} = (25, 30, 24, 1)$
688 : $P_{26624} = (31, 30, 24, 1)$
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690 : $P_{26816} = (31, 4, 25, 1)$
691 : $P_{26825} = (8, 5, 25, 1)$

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694 : $P_{26870} = (21, 6, 25, 1)$
695 : $P_{26891} = (10, 7, 25, 1)$
696 : $P_{26901} = (20, 7, 25, 1)$
697 : $P_{26956} = (11, 9, 25, 1)$
698 : $P_{26972} = (27, 9, 25, 1)$
699 : $P_{27078} = (5, 13, 25, 1)$
700 : $P_{27090} = (17, 13, 25, 1)$
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702 : $P_{27195} = (26, 16, 25, 1)$
703 : $P_{27204} = (3, 17, 25, 1)$
704 : $P_{27212} = (11, 17, 25, 1)$
705 : $P_{27267} = (2, 19, 25, 1)$
706 : $P_{27273} = (8, 19, 25, 1)$
707 : $P_{27412} = (19, 23, 25, 1)$
708 : $P_{27422} = (29, 23, 25, 1)$
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711 : $P_{27487} = (30, 25, 25, 1)$
712 : $P_{27518} = (29, 26, 25, 1)$
713 : $P_{27519} = (30, 26, 25, 1)$
714 : $P_{27602} = (17, 29, 25, 1)$
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716 : $P_{27641} = (24, 30, 25, 1)$
717 : $P_{27648} = (31, 30, 25, 1)$
718 : $P_{27652} = (3, 31, 25, 1)$
719 : $P_{27654} = (5, 31, 25, 1)$
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721 : $P_{27705} = (24, 0, 26, 1)$
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723 : $P_{27765} = (20, 2, 26, 1)$
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725 : $P_{27838} = (29, 4, 26, 1)$
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731 : $P_{27992} = (23, 9, 26, 1)$
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733 : $P_{28062} = (29, 11, 26, 1)$
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735 : $P_{28145} = (16, 14, 26, 1)$
736 : $P_{28164} = (3, 15, 26, 1)$
737 : $P_{28183} = (22, 15, 26, 1)$
738 : $P_{28212} = (19, 16, 26, 1)$
739 : $P_{28218} = (25, 16, 26, 1)$
740 : $P_{28227} = (2, 17, 26, 1)$
741 : $P_{28234} = (9, 17, 26, 1)$
742 : $P_{28273} = (16, 18, 26, 1)$
743 : $P_{28281} = (24, 18, 26, 1)$
744 : $P_{28474} = (25, 24, 26, 1)$
745 : $P_{28476} = (27, 24, 26, 1)$
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747 : $P_{28504} = (23, 25, 26, 1)$
748 : $P_{28524} = (11, 26, 26, 1)$
749 : $P_{28684} = (11, 31, 26, 1)$
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751 : $P_{28717} = (12, 0, 27, 1)$
752 : $P_{28728} = (23, 0, 27, 1)$
753 : $P_{28784} = (15, 2, 27, 1)$
754 : $P_{28791} = (22, 2, 27, 1)$
755 : $P_{28877} = (12, 5, 27, 1)$
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757 : $P_{28940} = (11, 7, 27, 1)$
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759 : $P_{28963} = (2, 8, 27, 1)$
760 : $P_{28978} = (17, 8, 27, 1)$
761 : $P_{29004} = (11, 9, 27, 1)$
762 : $P_{29018} = (25, 9, 27, 1)$
763 : $P_{29062} = (5, 11, 27, 1)$
764 : $P_{29078} = (21, 11, 27, 1)$
765 : $P_{29134} = (13, 13, 27, 1)$
766 : $P_{29148} = (27, 13, 27, 1)$
767 : $P_{29200} = (15, 15, 27, 1)$
768 : $P_{29212} = (27, 15, 27, 1)$
769 : $P_{29318} = (5, 19, 27, 1)$
770 : $P_{29326} = (13, 19, 27, 1)$
771 : $P_{29498} = (25, 24, 27, 1)$
772 : $P_{29499} = (26, 24, 27, 1)$
773 : $P_{29555} = (18, 26, 27, 1)$
774 : $P_{29556} = (19, 26, 27, 1)$
775 : $P_{29571} = (2, 27, 27, 1)$
776 : $P_{29684} = (19, 30, 27, 1)$
777 : $P_{29687} = (22, 30, 27, 1)$
778 : $P_{29714} = (17, 31, 27, 1)$
779 : $P_{29718} = (21, 31, 27, 1)$
780 : $P_{29742} = (13, 0, 28, 1)$
781 : $P_{29746} = (17, 0, 28, 1)$
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786 : $P_{30184} = (7, 14, 28, 1)$
787 : $P_{30198} = (21, 14, 28, 1)$
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789 : $P_{30226} = (17, 15, 28, 1)$
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791 : $P_{30252} = (11, 16, 28, 1)$
792 : $P_{30307} = (2, 18, 28, 1)$
793 : $P_{30317} = (12, 18, 28, 1)$
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797 : $P_{30383} = (14, 20, 28, 1)$
798 : $P_{30439} = (6, 22, 28, 1)$
799 : $P_{30445} = (12, 22, 28, 1)$

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802 : $P_{30539} = (10, 25, 28, 1)$
803 : $P_{30544} = (15, 25, 28, 1)$
804 : $P_{30617} = (24, 27, 28, 1)$
805 : $P_{30624} = (31, 27, 28, 1)$
806 : $P_{30640} = (15, 28, 28, 1)$
807 : $P_{30710} = (21, 30, 28, 1)$
808 : $P_{30712} = (23, 30, 28, 1)$
809 : $P_{30730} = (9, 31, 28, 1)$
810 : $P_{30731} = (10, 31, 28, 1)$
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812 : $P_{30834} = (17, 2, 29, 1)$
813 : $P_{30861} = (12, 3, 29, 1)$
814 : $P_{30867} = (18, 3, 29, 1)$
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816 : $P_{30907} = (26, 4, 29, 1)$
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821 : $P_{31117} = (12, 11, 29, 1)$
822 : $P_{31131} = (26, 11, 29, 1)$
823 : $P_{31214} = (13, 14, 29, 1)$
824 : $P_{31231} = (30, 14, 29, 1)$
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826 : $P_{31307} = (10, 17, 29, 1)$
827 : $P_{31431} = (6, 21, 29, 1)$
828 : $P_{31439} = (14, 21, 29, 1)$
829 : $P_{31476} = (19, 22, 29, 1)$
830 : $P_{31481} = (24, 22, 29, 1)$
831 : $P_{31508} = (19, 23, 29, 1)$
832 : $P_{31514} = (25, 23, 29, 1)$
833 : $P_{31610} = (25, 26, 29, 1)$
834 : $P_{31615} = (30, 26, 29, 1)$
835 : $P_{31628} = (11, 27, 29, 1)$
836 : $P_{31630} = (13, 27, 29, 1)$
837 : $P_{31665} = (16, 28, 29, 1)$
838 : $P_{31666} = (17, 28, 29, 1)$
839 : $P_{31691} = (10, 29, 29, 1)$
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841 : $P_{31763} = (18, 31, 29, 1)$
842 : $P_{31917} = (12, 4, 30, 1)$
843 : $P_{31927} = (22, 4, 30, 1)$
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845 : $P_{32089} = (24, 9, 30, 1)$
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848 : $P_{32174} = (13, 12, 30, 1)$
849 : $P_{32192} = (31, 12, 30, 1)$
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851 : $P_{32254} = (29, 14, 30, 1)$
852 : $P_{32356} = (3, 18, 30, 1)$
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856 : $P_{32452} = (3, 21, 30, 1)$
857 : $P_{32457} = (8, 21, 30, 1)$
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859 : $P_{32557} = (12, 24, 30, 1)$
860 : $P_{32602} = (25, 25, 30, 1)$
861 : $P_{32607} = (30, 25, 30, 1)$
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863 : $P_{32638} = (29, 26, 30, 1)$
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865 : $P_{32664} = (23, 27, 30, 1)$
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867 : $P_{32695} = (22, 28, 30, 1)$
868 : $P_{32725} = (20, 29, 30, 1)$
869 : $P_{32728} = (23, 29, 30, 1)$
870 : $P_{32745} = (8, 30, 30, 1)$
871 : $P_{32910} = (13, 3, 31, 1)$
872 : $P_{32914} = (17, 3, 31, 1)$
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874 : $P_{32954} = (25, 4, 31, 1)$
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876 : $P_{32992} = (31, 5, 31, 1)$
877 : $P_{33007} = (14, 6, 31, 1)$
878 : $P_{33016} = (23, 6, 31, 1)$
879 : $P_{33094} = (5, 9, 31, 1)$
880 : $P_{33108} = (19, 9, 31, 1)$
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882 : $P_{33172} = (19, 11, 31, 1)$
883 : $P_{33198} = (13, 12, 31, 1)$
884 : $P_{33215} = (30, 12, 31, 1)$
885 : $P_{33231} = (14, 13, 31, 1)$
886 : $P_{33245} = (28, 13, 31, 1)$
887 : $P_{33285} = (4, 15, 31, 1)$
888 : $P_{33301} = (20, 15, 31, 1)$
889 : $P_{33560} = (23, 23, 31, 1)$
890 : $P_{33568} = (31, 23, 31, 1)$
891 : $P_{33650} = (17, 26, 31, 1)$
892 : $P_{33653} = (20, 26, 31, 1)$
893 : $P_{33689} = (24, 27, 31, 1)$
894 : $P_{33693} = (28, 27, 31, 1)$
895 : $P_{33701} = (4, 28, 31, 1)$
896 : $P_{33704} = (7, 28, 31, 1)$
897 : $P_{33785} = (24, 30, 31, 1)$
898 : $P_{33786} = (25, 30, 31, 1)$
899 : $P_{33795} = (2, 31, 31, 1)$

Line Intersection Graph

	0 1 2 3 4 5
0	0 1 1 1 0 0
1	1 0 1 0 0 1
2	1 1 0 0 1 0
3	1 0 0 0 1 1
4	0 0 1 1 0 1
5	0 1 0 1 1 0

Neighbor sets in the line intersection graph:
Line 0 intersects

Line	ℓ_1	ℓ_2	ℓ_3
in point	P_5	P_1	P_0

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_5
in point	P_5	P_{67}	P_{36}

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_4
in point	P_1	P_{67}	P_2

Line 3 intersects

Line	ℓ_0	ℓ_4	ℓ_5
in point	P_0	P_{1090}	P_{1091}

Line 4 intersects

Line	ℓ_2	ℓ_3	ℓ_5
in point	P_2	P_{1090}	P_{2114}

Line 5 intersects

Line	ℓ_1	ℓ_3	ℓ_4
in point	P_{36}	P_{1091}	P_{2114}

The surface has 1089 points:
Too many to print.