Rank-67107 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

(0, 0, 0, 0, 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 1141933093

General information

Number of lines	6
Number of points	1121
Number of singular points	1
Number of Eckardt points	1
Number of double points	6
Number of single points	183
Number of points off lines	931
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^6
Type of lines on points	3, 2^6, 1^{183}, 0^{931}

Singular Points

The surface has 1 singular points:

$0: \ P_3 = \mathbf{P}(0,0,0,1) = \mathbf{P}(0,0,0,1)$

The 6 Lines

The lines and their Pluecker coordinates are:

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

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

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

$$\ell_3 = \left[\begin{array}{cccc} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1056} = \left[\begin{array}{cccc} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1056} = \mathbf{Pl}(0,0,0,0,1,0)_{1089}$$

$$\ell_4 = \left[\begin{array}{cccc} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083424} = \left[\begin{array}{cccc} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083424} = \mathbf{Pl}(0,1,0,0,0,0)_{1}$$

$$\ell_5 = \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{34880} = \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{34880} = \mathbf{Pl}(0,1,0,0,1,0)_{1121}$$

Rank of lines: (0, 1058, 1082368, 1056, 1083424, 34880)
Rank of points on Klein quadric: (0, 34913, 34849, 1089, 1, 1121)

Eckardt Points

The surface has 1 Eckardt points:
$0 : P_3 = \mathbf{P}(0,0,0,1) = \mathbf{P}(0,0,0,1)$.

Double Points

The surface has 6 Double points:
The double points on the surface are:

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

Single Points

The surface has 183 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 : $P_{1059} = (1, 0, 0, 1)$ lies on line ℓ_3
91 : $P_{1060} = (2, 0, 0, 1)$ lies on line ℓ_3
92 : $P_{1061} = (3, 0, 0, 1)$ lies on line ℓ_3
93 : $P_{1062} = (4, 0, 0, 1)$ lies on line ℓ_3
94 : $P_{1063} = (5, 0, 0, 1)$ lies on line ℓ_3
95 : $P_{1064} = (6, 0, 0, 1)$ lies on line ℓ_3
96 : $P_{1065} = (7, 0, 0, 1)$ lies on line ℓ_3
97 : $P_{1066} = (8, 0, 0, 1)$ lies on line ℓ_3
98 : $P_{1067} = (9, 0, 0, 1)$ lies on line ℓ_3
99 : $P_{1068} = (10, 0, 0, 1)$ lies on line ℓ_3
100 : $P_{1069} = (11, 0, 0, 1)$ lies on line ℓ_3
101 : $P_{1070} = (12, 0, 0, 1)$ lies on line ℓ_3
102 : $P_{1071} = (13, 0, 0, 1)$ lies on line ℓ_3
103 : $P_{1072} = (14, 0, 0, 1)$ lies on line ℓ_3
104 : $P_{1073} = (15, 0, 0, 1)$ lies on line ℓ_3
105 : $P_{1074} = (16, 0, 0, 1)$ lies on line ℓ_3
106 : $P_{1075} = (17, 0, 0, 1)$ lies on line ℓ_3
107 : $P_{1076} = (18, 0, 0, 1)$ lies on line ℓ_3
108 : $P_{1077} = (19, 0, 0, 1)$ lies on line ℓ_3
109 : $P_{1078} = (20, 0, 0, 1)$ lies on line ℓ_3
110 : $P_{1079} = (21, 0, 0, 1)$ lies on line ℓ_3
111 : $P_{1080} = (22, 0, 0, 1)$ lies on line ℓ_3
112 : $P_{1081} = (23, 0, 0, 1)$ lies on line ℓ_3
113 : $P_{1082} = (24, 0, 0, 1)$ lies on line ℓ_3
114 : $P_{1083} = (25, 0, 0, 1)$ lies on line ℓ_3
115 : $P_{1084} = (26, 0, 0, 1)$ lies on line ℓ_3
116 : $P_{1085} = (27, 0, 0, 1)$ lies on line ℓ_3
117 : $P_{1086} = (28, 0, 0, 1)$ lies on line ℓ_3
118 : $P_{1087} = (29, 0, 0, 1)$ lies on line ℓ_3
119 : $P_{1088} = (30, 0, 0, 1)$ lies on line ℓ_3
120 : $P_{1089} = (31, 0, 0, 1)$ lies on line ℓ_3
121 : $P_{2082} = (0, 0, 1, 1)$ lies on line ℓ_4
122 : $P_{2083} = (1, 0, 1, 1)$ lies on line ℓ_5
123 : $P_{3105} = (0, 0, 2, 1)$ lies on line ℓ_4
124 : $P_{3107} = (2, 0, 2, 1)$ lies on line ℓ_5
125 : $P_{4129} = (0, 0, 3, 1)$ lies on line ℓ_4
126 : $P_{4132} = (3, 0, 3, 1)$ lies on line ℓ_5
127 : $P_{5153} = (0, 0, 4, 1)$ lies on line ℓ_4
128 : $P_{5157} = (4, 0, 4, 1)$ lies on line ℓ_5
129 : $P_{6177} = (0, 0, 5, 1)$ lies on line ℓ_4
130 : $P_{6182} = (5, 0, 5, 1)$ lies on line ℓ_5
131 : $P_{7201} = (0, 0, 6, 1)$ lies on line ℓ_4
132 : $P_{7207} = (6, 0, 6, 1)$ lies on line ℓ_5
133 : $P_{8225} = (0, 0, 7, 1)$ lies on line ℓ_4
134 : $P_{8232} = (7, 0, 7, 1)$ lies on line ℓ_5
135 : $P_{9249} = (0, 0, 8, 1)$ lies on line ℓ_4
136 : $P_{9257} = (8, 0, 8, 1)$ lies on line ℓ_5
137 : $P_{10273} = (0, 0, 9, 1)$ lies on line ℓ_4

138 : $P_{10282} = (9, 0, 9, 1)$ lies on line ℓ_5
139 : $P_{11297} = (0, 0, 10, 1)$ lies on line ℓ_4
140 : $P_{11307} = (10, 0, 10, 1)$ lies on line ℓ_5
141 : $P_{12321} = (0, 0, 11, 1)$ lies on line ℓ_4
142 : $P_{12332} = (11, 0, 11, 1)$ lies on line ℓ_5
143 : $P_{13345} = (0, 0, 12, 1)$ lies on line ℓ_4
144 : $P_{13357} = (12, 0, 12, 1)$ lies on line ℓ_5
145 : $P_{14369} = (0, 0, 13, 1)$ lies on line ℓ_4
146 : $P_{14382} = (13, 0, 13, 1)$ lies on line ℓ_5
147 : $P_{15393} = (0, 0, 14, 1)$ lies on line ℓ_4
148 : $P_{15407} = (14, 0, 14, 1)$ lies on line ℓ_5
149 : $P_{16417} = (0, 0, 15, 1)$ lies on line ℓ_4
150 : $P_{16432} = (15, 0, 15, 1)$ lies on line ℓ_5
151 : $P_{17441} = (0, 0, 16, 1)$ lies on line ℓ_4
152 : $P_{17457} = (16, 0, 16, 1)$ lies on line ℓ_5
153 : $P_{18465} = (0, 0, 17, 1)$ lies on line ℓ_4
154 : $P_{18482} = (17, 0, 17, 1)$ lies on line ℓ_5
155 : $P_{19489} = (0, 0, 18, 1)$ lies on line ℓ_4
156 : $P_{19507} = (18, 0, 18, 1)$ lies on line ℓ_5
157 : $P_{20513} = (0, 0, 19, 1)$ lies on line ℓ_4
158 : $P_{20532} = (19, 0, 19, 1)$ lies on line ℓ_5
159 : $P_{21537} = (0, 0, 20, 1)$ lies on line ℓ_4
160 : $P_{21557} = (20, 0, 20, 1)$ lies on line ℓ_5
161 : $P_{22561} = (0, 0, 21, 1)$ lies on line ℓ_4
162 : $P_{22582} = (21, 0, 21, 1)$ lies on line ℓ_5
163 : $P_{23585} = (0, 0, 22, 1)$ lies on line ℓ_4
164 : $P_{23607} = (22, 0, 22, 1)$ lies on line ℓ_5
165 : $P_{24609} = (0, 0, 23, 1)$ lies on line ℓ_4
166 : $P_{24632} = (23, 0, 23, 1)$ lies on line ℓ_5
167 : $P_{25633} = (0, 0, 24, 1)$ lies on line ℓ_4
168 : $P_{25657} = (24, 0, 24, 1)$ lies on line ℓ_5
169 : $P_{26657} = (0, 0, 25, 1)$ lies on line ℓ_4
170 : $P_{26682} = (25, 0, 25, 1)$ lies on line ℓ_5
171 : $P_{27681} = (0, 0, 26, 1)$ lies on line ℓ_4
172 : $P_{27707} = (26, 0, 26, 1)$ lies on line ℓ_5
173 : $P_{28705} = (0, 0, 27, 1)$ lies on line ℓ_4
174 : $P_{28732} = (27, 0, 27, 1)$ lies on line ℓ_5
175 : $P_{29729} = (0, 0, 28, 1)$ lies on line ℓ_4
176 : $P_{29757} = (28, 0, 28, 1)$ lies on line ℓ_5
177 : $P_{30753} = (0, 0, 29, 1)$ lies on line ℓ_4
178 : $P_{30782} = (29, 0, 29, 1)$ lies on line ℓ_5
179 : $P_{31777} = (0, 0, 30, 1)$ lies on line ℓ_4
180 : $P_{31807} = (30, 0, 30, 1)$ lies on line ℓ_5
181 : $P_{32801} = (0, 0, 31, 1)$ lies on line ℓ_4
182 : $P_{32832} = (31, 0, 31, 1)$ lies on line ℓ_5

The single points on the surface are:

Points on surface but on no line

The surface has 931 points not on any line:
The points on the surface but not on lines are:

0 : $P_4 = (1, 1, 1, 1)$
1 : $P_{2165} = (20, 2, 1, 1)$
2 : $P_{2168} = (23, 2, 1, 1)$
3 : $P_{2233} = (24, 4, 1, 1)$
4 : $P_{2238} = (29, 4, 1, 1)$
5 : $P_{2290} = (17, 6, 1, 1)$
6 : $P_{2295} = (22, 6, 1, 1)$
7 : $P_{2331} = (26, 7, 1, 1)$
8 : $P_{2333} = (28, 7, 1, 1)$
9 : $P_{2518} = (21, 13, 1, 1)$
10 : $P_{2522} = (25, 13, 1, 1)$
11 : $P_{2600} = (7, 16, 1, 1)$
12 : $P_{2615} = (22, 16, 1, 1)$
13 : $P_{2733} = (12, 20, 1, 1)$
14 : $P_{2746} = (25, 20, 1, 1)$
15 : $P_{2756} = (3, 21, 1, 1)$
16 : $P_{2776} = (23, 21, 1, 1)$
17 : $P_{2788} = (3, 22, 1, 1)$
18 : $P_{2805} = (20, 22, 1, 1)$
19 : $P_{2824} = (7, 23, 1, 1)$
20 : $P_{2834} = (17, 23, 1, 1)$
21 : $P_{2861} = (12, 24, 1, 1)$
22 : $P_{2870} = (21, 24, 1, 1)$
23 : $P_{2886} = (5, 25, 1, 1)$
24 : $P_{2910} = (29, 25, 1, 1)$
25 : $P_{2951} = (6, 27, 1, 1)$
26 : $P_{2973} = (28, 27, 1, 1)$
27 : $P_{2982} = (5, 28, 1, 1)$
28 : $P_{3001} = (24, 28, 1, 1)$
29 : $P_{3015} = (6, 29, 1, 1)$
30 : $P_{3035} = (26, 29, 1, 1)$
31 : $P_{3145} = (8, 1, 2, 1)$
32 : $P_{3148} = (11, 1, 2, 1)$
33 : $P_{3196} = (27, 2, 2, 1)$
34 : $P_{3215} = (14, 3, 2, 1)$
35 : $P_{3216} = (15, 3, 2, 1)$
36 : $P_{3235} = (2, 4, 2, 1)$
37 : $P_{3237} = (4, 4, 2, 1)$
38 : $P_{3306} = (9, 6, 2, 1)$
39 : $P_{3310} = (13, 6, 2, 1)$
40 : $P_{3493} = (4, 12, 2, 1)$
41 : $P_{3499} = (10, 12, 2, 1)$

$42: P_{3571} = (18, 14, 2, 1)$
$43: P_{3583} = (30, 14, 2, 1)$
$44: P_{3603} = (18, 15, 2, 1)$
$45: P_{3616} = (31, 15, 2, 1)$
$46: P_{3657} = (8, 17, 2, 1)$
$47: P_{3676} = (27, 17, 2, 1)$
$48: P_{3754} = (9, 20, 2, 1)$
$49: P_{3776} = (31, 20, 2, 1)$
$50: P_{3852} = (11, 23, 2, 1)$
$51: P_{3871} = (30, 23, 2, 1)$
$52: P_{3883} = (10, 24, 2, 1)$
$53: P_{3889} = (16, 24, 2, 1)$
$54: P_{4014} = (13, 28, 2, 1)$
$55: P_{4020} = (19, 28, 2, 1)$
$56: P_{4048} = (15, 29, 2, 1)$
$57: P_{4049} = (16, 29, 2, 1)$
$58: P_{4111} = (14, 31, 2, 1)$
$59: P_{4116} = (19, 31, 2, 1)$
$60: P_{4217} = (24, 2, 3, 1)$
$61: P_{4218} = (25, 2, 3, 1)$
$62: P_{4251} = (26, 3, 3, 1)$
$63: P_{4292} = (3, 5, 3, 1)$
$64: P_{4294} = (5, 5, 3, 1)$
$65: P_{4402} = (17, 8, 3, 1)$
$66: P_{4411} = (26, 8, 3, 1)$
$67: P_{4440} = (23, 9, 3, 1)$
$68: P_{4446} = (29, 9, 3, 1)$
$69: P_{4454} = (5, 10, 3, 1)$
$70: P_{4461} = (12, 10, 3, 1)$
$71: P_{4502} = (21, 11, 3, 1)$
$72: P_{4510} = (29, 11, 3, 1)$
$73: P_{4535} = (22, 12, 3, 1)$
$74: P_{4538} = (25, 12, 3, 1)$
$75: P_{4629} = (20, 15, 3, 1)$
$76: P_{4633} = (24, 15, 3, 1)$
$77: P_{4680} = (7, 17, 3, 1)$
$78: P_{4694} = (21, 17, 3, 1)$
$79: P_{4743} = (6, 19, 3, 1)$
$80: P_{4759} = (22, 19, 3, 1)$
$81: P_{4802} = (1, 21, 3, 1)$
$82: P_{4824} = (23, 21, 3, 1)$
$83: P_{4834} = (1, 22, 3, 1)$
$84: P_{4853} = (20, 22, 3, 1)$
$85: P_{4904} = (7, 24, 3, 1)$
$86: P_{4925} = (28, 24, 3, 1)$
$87: P_{4935} = (6, 25, 3, 1)$
$88: P_{4957} = (28, 25, 3, 1)$
$89: P_{5101} = (12, 30, 3, 1)$
$90: P_{5106} = (17, 30, 3, 1)$
$91: P_{5195} = (10, 1, 4, 1)$
$92: P_{5200} = (15, 1, 4, 1)$
$93: P_{5283} = (2, 4, 4, 1)$
$94: P_{5343} = (30, 5, 4, 1)$
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903 : $P_{32849} = (16, 1, 31, 1)$
904 : $P_{32937} = (8, 4, 31, 1)$
905 : $P_{32948} = (19, 4, 31, 1)$

906 : $P_{32965} = (4, 5, 31, 1)$
907 : $P_{32991} = (30, 5, 31, 1)$
908 : $P_{33003} = (10, 6, 31, 1)$
909 : $P_{33012} = (19, 6, 31, 1)$
910 : $P_{33033} = (8, 7, 31, 1)$
911 : $P_{33041} = (16, 7, 31, 1)$
912 : $P_{33066} = (9, 8, 31, 1)$
913 : $P_{33087} = (30, 8, 31, 1)$
914 : $P_{33135} = (14, 10, 31, 1)$
915 : $P_{33148} = (27, 10, 31, 1)$
916 : $P_{33168} = (15, 11, 31, 1)$
917 : $P_{33180} = (27, 11, 31, 1)$
918 : $P_{33283} = (2, 15, 31, 1)$
919 : $P_{33299} = (18, 15, 31, 1)$
920 : $P_{33395} = (18, 18, 31, 1)$
921 : $P_{33408} = (31, 18, 31, 1)$
922 : $P_{33443} = (2, 20, 31, 1)$
923 : $P_{33450} = (9, 20, 31, 1)$
924 : $P_{33509} = (4, 22, 31, 1)$
925 : $P_{33518} = (13, 22, 31, 1)$
926 : $P_{33612} = (11, 25, 31, 1)$
927 : $P_{33614} = (13, 25, 31, 1)$
928 : $P_{33771} = (10, 30, 31, 1)$
929 : $P_{33772} = (11, 30, 31, 1)$
930 : $P_{33808} = (15, 31, 31, 1)$

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_3	P_3

Line 4 intersects

Line	ℓ_2	ℓ_3	ℓ_5
in point	P_2	P_3	P_3

Line 5 intersects

Line	ℓ_1	ℓ_3	ℓ_4
in point	P_{36}	P_3	P_3

The surface has 1121 points:
Too many to print.