Rank-139 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

(0, 1, 1, 1, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)
The point rank of the equation over GF(32) is 69273679

General information

Number of lines	6
Number of points	1121
Number of singular points	1
Number of Eckardt points	2
Number of double points	3
Number of single points	186
Number of points off lines	930
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^6
Type of lines on points	3^2, 2^3, 1^{186}, 0^{930}

Singular Points

The surface has 1 singular points:

$0: \ P_4 = \mathbf{P}(1,1,1,1) = \mathbf{P}(1,1,1,1)$

The 6 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 \end{bmatrix}_1 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 \end{bmatrix}_1 = \mathbf{Pl}(1,0,1,0,0,0)_3$$

$$\ell_1 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{32} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{32} = \mathbf{Pl}(1,0,0,0,1,0)_{1090}$$

$$\ell_2 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1025} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1025} = \mathbf{Pl}(0,0,1,0,1,0)_{1152}$$

$$\ell_3 = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{2082} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{2082} = \mathbf{Pl}(0,0,1,1,1,1)_{70562}$$

$$\ell_4 = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{1089} = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{1089} = \mathbf{Pl}(1,1,0,0,1,1)_{68609}$$

$$\ell_5 = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{33825} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{33825} = \mathbf{Pl}(1,1,1,1,0,0)_{128}$$

Rank of lines: (1, 32, 1025, 2082, 1089, 33825)
Rank of points on Klein quadric: (3, 1090, 1152, 70562, 68609, 128)

Eckardt Points

The surface has 2 Eckardt points:
$0 : P_0 = \mathbf{P}(1,0,0,0) = \mathbf{P}(1,0,0,0)$,
$1 : P_4 = \mathbf{P}(1,1,1,1) = \mathbf{P}(1,1,1,1)$.

Double Points

The surface has 3 Double points:
The double points on the surface are:

$P_{67} = (0,1,1,0) = \ell_0 \cap \ell_5$
$P_{1090} = (0,1,0,1) = \ell_1 \cap \ell_4$
$P_{2082} = (0,0,1,1) = \ell_2 \cap \ell_3$

Single Points

The surface has 186 single points:
The single points on the surface are:

$0 : P_5 = (1,1,0,0)$ lies on line ℓ_3
$1 : P_{36} = (1,0,1,0)$ lies on line ℓ_4
$2 : P_{68} = (1,1,1,0)$ lies on line ℓ_0
$3 : P_{69} = (2,1,1,0)$ lies on line ℓ_0
$4 : P_{70} = (3,1,1,0)$ lies on line ℓ_0
$5 : P_{71} = (4,1,1,0)$ lies on line ℓ_0
$6 : P_{72} = (5,1,1,0)$ lies on line ℓ_0
$7 : P_{73} = (6,1,1,0)$ lies on line ℓ_0
$8 : P_{74} = (7,1,1,0)$ lies on line ℓ_0
$9 : P_{75} = (8,1,1,0)$ lies on line ℓ_0
$10 : P_{76} = (9,1,1,0)$ lies on line ℓ_0
$11 : P_{77} = (10,1,1,0)$ lies on line ℓ_0
$12 : P_{78} = (11,1,1,0)$ lies on line ℓ_0
$13 : P_{79} = (12,1,1,0)$ lies on line ℓ_0
$14 : P_{80} = (13,1,1,0)$ lies on line ℓ_0
$15 : P_{81} = (14,1,1,0)$ lies on line ℓ_0
$16 : P_{82} = (15,1,1,0)$ lies on line ℓ_0
$17 : P_{83} = (16,1,1,0)$ lies on line ℓ_0
$18 : P_{84} = (17,1,1,0)$ lies on line ℓ_0
$19 : P_{85} = (18,1,1,0)$ lies on line ℓ_0
$20 : P_{86} = (19,1,1,0)$ lies on line ℓ_0
$21 : P_{87} = (20,1,1,0)$ lies on line ℓ_0
$22 : P_{88} = (21,1,1,0)$ lies on line ℓ_0
$23 : P_{89} = (22,1,1,0)$ lies on line ℓ_0
$24 : P_{90} = (23,1,1,0)$ lies on line ℓ_0
$25 : P_{91} = (24,1,1,0)$ lies on line ℓ_0
$26 : P_{92} = (25,1,1,0)$ lies on line ℓ_0
$27 : P_{93} = (26,1,1,0)$ lies on line ℓ_0
$28 : P_{94} = (27,1,1,0)$ lies on line ℓ_0
$29 : P_{95} = (28,1,1,0)$ lies on line ℓ_0
$30 : P_{96} = (29,1,1,0)$ lies on line ℓ_0
$31 : P_{97} = (30,1,1,0)$ lies on line ℓ_0

32 : $P_{98} = (31, 1, 1, 0)$ lies on line ℓ_0
33 : $P_{1059} = (1, 0, 0, 1)$ lies on line ℓ_5
34 : $P_{1091} = (1, 1, 0, 1)$ lies on line ℓ_1
35 : $P_{1092} = (2, 1, 0, 1)$ lies on line ℓ_1
36 : $P_{1093} = (3, 1, 0, 1)$ lies on line ℓ_1
37 : $P_{1094} = (4, 1, 0, 1)$ lies on line ℓ_1
38 : $P_{1095} = (5, 1, 0, 1)$ lies on line ℓ_1
39 : $P_{1096} = (6, 1, 0, 1)$ lies on line ℓ_1
40 : $P_{1097} = (7, 1, 0, 1)$ lies on line ℓ_1
41 : $P_{1098} = (8, 1, 0, 1)$ lies on line ℓ_1
42 : $P_{1099} = (9, 1, 0, 1)$ lies on line ℓ_1
43 : $P_{1100} = (10, 1, 0, 1)$ lies on line ℓ_1
44 : $P_{1101} = (11, 1, 0, 1)$ lies on line ℓ_1
45 : $P_{1102} = (12, 1, 0, 1)$ lies on line ℓ_1
46 : $P_{1103} = (13, 1, 0, 1)$ lies on line ℓ_1
47 : $P_{1104} = (14, 1, 0, 1)$ lies on line ℓ_1
48 : $P_{1105} = (15, 1, 0, 1)$ lies on line ℓ_1
49 : $P_{1106} = (16, 1, 0, 1)$ lies on line ℓ_1
50 : $P_{1107} = (17, 1, 0, 1)$ lies on line ℓ_1
51 : $P_{1108} = (18, 1, 0, 1)$ lies on line ℓ_1
52 : $P_{1109} = (19, 1, 0, 1)$ lies on line ℓ_1
53 : $P_{1110} = (20, 1, 0, 1)$ lies on line ℓ_1
54 : $P_{1111} = (21, 1, 0, 1)$ lies on line ℓ_1
55 : $P_{1112} = (22, 1, 0, 1)$ lies on line ℓ_1
56 : $P_{1113} = (23, 1, 0, 1)$ lies on line ℓ_1
57 : $P_{1114} = (24, 1, 0, 1)$ lies on line ℓ_1
58 : $P_{1115} = (25, 1, 0, 1)$ lies on line ℓ_1
59 : $P_{1116} = (26, 1, 0, 1)$ lies on line ℓ_1
60 : $P_{1117} = (27, 1, 0, 1)$ lies on line ℓ_1
61 : $P_{1118} = (28, 1, 0, 1)$ lies on line ℓ_1
62 : $P_{1119} = (29, 1, 0, 1)$ lies on line ℓ_1
63 : $P_{1120} = (30, 1, 0, 1)$ lies on line ℓ_1
64 : $P_{1121} = (31, 1, 0, 1)$ lies on line ℓ_1
65 : $P_{2083} = (1, 0, 1, 1)$ lies on line ℓ_2
66 : $P_{2084} = (2, 0, 1, 1)$ lies on line ℓ_2
67 : $P_{2085} = (3, 0, 1, 1)$ lies on line ℓ_2
68 : $P_{2086} = (4, 0, 1, 1)$ lies on line ℓ_2
69 : $P_{2087} = (5, 0, 1, 1)$ lies on line ℓ_2
70 : $P_{2088} = (6, 0, 1, 1)$ lies on line ℓ_2
71 : $P_{2089} = (7, 0, 1, 1)$ lies on line ℓ_2
72 : $P_{2090} = (8, 0, 1, 1)$ lies on line ℓ_2
73 : $P_{2091} = (9, 0, 1, 1)$ lies on line ℓ_2
74 : $P_{2092} = (10, 0, 1, 1)$ lies on line ℓ_2
75 : $P_{2093} = (11, 0, 1, 1)$ lies on line ℓ_2
76 : $P_{2094} = (12, 0, 1, 1)$ lies on line ℓ_2
77 : $P_{2095} = (13, 0, 1, 1)$ lies on line ℓ_2
78 : $P_{2096} = (14, 0, 1, 1)$ lies on line ℓ_2
79 : $P_{2097} = (15, 0, 1, 1)$ lies on line ℓ_2
80 : $P_{2098} = (16, 0, 1, 1)$ lies on line ℓ_2
81 : $P_{2099} = (17, 0, 1, 1)$ lies on line ℓ_2
82 : $P_{2100} = (18, 0, 1, 1)$ lies on line ℓ_2
83 : $P_{2101} = (19, 0, 1, 1)$ lies on line ℓ_2
84 : $P_{2102} = (20, 0, 1, 1)$ lies on line ℓ_2
85 : $P_{2103} = (21, 0, 1, 1)$ lies on line ℓ_2
86 : $P_{2104} = (22, 0, 1, 1)$ lies on line ℓ_2
87 : $P_{2105} = (23, 0, 1, 1)$ lies on line ℓ_2
88 : $P_{2106} = (24, 0, 1, 1)$ lies on line ℓ_2
89 : $P_{2107} = (25, 0, 1, 1)$ lies on line ℓ_2
90 : $P_{2108} = (26, 0, 1, 1)$ lies on line ℓ_2
91 : $P_{2109} = (27, 0, 1, 1)$ lies on line ℓ_2
92 : $P_{2110} = (28, 0, 1, 1)$ lies on line ℓ_2
93 : $P_{2111} = (29, 0, 1, 1)$ lies on line ℓ_2
94 : $P_{2112} = (30, 0, 1, 1)$ lies on line ℓ_2
95 : $P_{2113} = (31, 0, 1, 1)$ lies on line ℓ_2
96 : $P_{2147} = (2, 2, 1, 1)$ lies on line ℓ_3
97 : $P_{2180} = (3, 3, 1, 1)$ lies on line ℓ_3
98 : $P_{2213} = (4, 4, 1, 1)$ lies on line ℓ_3
99 : $P_{2246} = (5, 5, 1, 1)$ lies on line ℓ_3
100 : $P_{2279} = (6, 6, 1, 1)$ lies on line ℓ_3
101 : $P_{2312} = (7, 7, 1, 1)$ lies on line ℓ_3
102 : $P_{2345} = (8, 8, 1, 1)$ lies on line ℓ_3
103 : $P_{2378} = (9, 9, 1, 1)$ lies on line ℓ_3
104 : $P_{2411} = (10, 10, 1, 1)$ lies on line ℓ_3
105 : $P_{2444} = (11, 11, 1, 1)$ lies on line ℓ_3
106 : $P_{2477} = (12, 12, 1, 1)$ lies on line ℓ_3
107 : $P_{2510} = (13, 13, 1, 1)$ lies on line ℓ_3
108 : $P_{2543} = (14, 14, 1, 1)$ lies on line ℓ_3
109 : $P_{2576} = (15, 15, 1, 1)$ lies on line ℓ_3
110 : $P_{2609} = (16, 16, 1, 1)$ lies on line ℓ_3
111 : $P_{2642} = (17, 17, 1, 1)$ lies on line ℓ_3
112 : $P_{2675} = (18, 18, 1, 1)$ lies on line ℓ_3
113 : $P_{2708} = (19, 19, 1, 1)$ lies on line ℓ_3
114 : $P_{2741} = (20, 20, 1, 1)$ lies on line ℓ_3
115 : $P_{2774} = (21, 21, 1, 1)$ lies on line ℓ_3
116 : $P_{2807} = (22, 22, 1, 1)$ lies on line ℓ_3
117 : $P_{2840} = (23, 23, 1, 1)$ lies on line ℓ_3
118 : $P_{2873} = (24, 24, 1, 1)$ lies on line ℓ_3
119 : $P_{2906} = (25, 25, 1, 1)$ lies on line ℓ_3
120 : $P_{2939} = (26, 26, 1, 1)$ lies on line ℓ_3
121 : $P_{2972} = (27, 27, 1, 1)$ lies on line ℓ_3
122 : $P_{3005} = (28, 28, 1, 1)$ lies on line ℓ_3
123 : $P_{3038} = (29, 29, 1, 1)$ lies on line ℓ_3
124 : $P_{3071} = (30, 30, 1, 1)$ lies on line ℓ_3
125 : $P_{3104} = (31, 31, 1, 1)$ lies on line ℓ_3
126 : $P_{3139} = (2, 1, 2, 1)$ lies on line ℓ_4
127 : $P_{3170} = (1, 2, 2, 1)$ lies on line ℓ_5
128 : $P_{4164} = (3, 1, 3, 1)$ lies on line ℓ_4
129 : $P_{4226} = (1, 3, 3, 1)$ lies on line ℓ_5
130 : $P_{5189} = (4, 1, 4, 1)$ lies on line ℓ_4
131 : $P_{5282} = (1, 4, 4, 1)$ lies on line ℓ_5
132 : $P_{6214} = (5, 1, 5, 1)$ lies on line ℓ_4
133 : $P_{6338} = (1, 5, 5, 1)$ lies on line ℓ_5
134 : $P_{7239} = (6, 1, 6, 1)$ lies on line ℓ_4
135 : $P_{7394} = (1, 6, 6, 1)$ lies on line ℓ_5
136 : $P_{8264} = (7, 1, 7, 1)$ lies on line ℓ_4
137 : $P_{8450} = (1, 7, 7, 1)$ lies on line ℓ_5
138 : $P_{9289} = (8, 1, 8, 1)$ lies on line ℓ_4
139 : $P_{9506} = (1, 8, 8, 1)$ lies on line ℓ_5

140 : $P_{10314} = (9, 1, 9, 1)$ lies on line ℓ_4
141 : $P_{10562} = (1, 9, 9, 1)$ lies on line ℓ_5
142 : $P_{11339} = (10, 1, 10, 1)$ lies on line ℓ_4
143 : $P_{11618} = (1, 10, 10, 1)$ lies on line ℓ_5
144 : $P_{12364} = (11, 1, 11, 1)$ lies on line ℓ_4
145 : $P_{12674} = (1, 11, 11, 1)$ lies on line ℓ_5
146 : $P_{13389} = (12, 1, 12, 1)$ lies on line ℓ_4
147 : $P_{13730} = (1, 12, 12, 1)$ lies on line ℓ_5
148 : $P_{14414} = (13, 1, 13, 1)$ lies on line ℓ_4
149 : $P_{14786} = (1, 13, 13, 1)$ lies on line ℓ_5
150 : $P_{15439} = (14, 1, 14, 1)$ lies on line ℓ_4
151 : $P_{15842} = (1, 14, 14, 1)$ lies on line ℓ_5
152 : $P_{16464} = (15, 1, 15, 1)$ lies on line ℓ_4
153 : $P_{16898} = (1, 15, 15, 1)$ lies on line ℓ_5
154 : $P_{17489} = (16, 1, 16, 1)$ lies on line ℓ_4
155 : $P_{17954} = (1, 16, 16, 1)$ lies on line ℓ_5
156 : $P_{18514} = (17, 1, 17, 1)$ lies on line ℓ_4
157 : $P_{19010} = (1, 17, 17, 1)$ lies on line ℓ_5
158 : $P_{19539} = (18, 1, 18, 1)$ lies on line ℓ_4
159 : $P_{20066} = (1, 18, 18, 1)$ lies on line ℓ_5
160 : $P_{20564} = (19, 1, 19, 1)$ lies on line ℓ_4
161 : $P_{21122} = (1, 19, 19, 1)$ lies on line ℓ_5
162 : $P_{21589} = (20, 1, 20, 1)$ lies on line ℓ_4
163 : $P_{22178} = (1, 20, 20, 1)$ lies on line ℓ_5
164 : $P_{22614} = (21, 1, 21, 1)$ lies on line ℓ_4
165 : $P_{23234} = (1, 21, 21, 1)$ lies on line ℓ_5
166 : $P_{23639} = (22, 1, 22, 1)$ lies on line ℓ_4
167 : $P_{24290} = (1, 22, 22, 1)$ lies on line ℓ_5
168 : $P_{24664} = (23, 1, 23, 1)$ lies on line ℓ_4
169 : $P_{25346} = (1, 23, 23, 1)$ lies on line ℓ_5
170 : $P_{25689} = (24, 1, 24, 1)$ lies on line ℓ_4
171 : $P_{26402} = (1, 24, 24, 1)$ lies on line ℓ_5
172 : $P_{26714} = (25, 1, 25, 1)$ lies on line ℓ_4
173 : $P_{27458} = (1, 25, 25, 1)$ lies on line ℓ_5
174 : $P_{27739} = (26, 1, 26, 1)$ lies on line ℓ_4
175 : $P_{28514} = (1, 26, 26, 1)$ lies on line ℓ_5
176 : $P_{28764} = (27, 1, 27, 1)$ lies on line ℓ_4
177 : $P_{29570} = (1, 27, 27, 1)$ lies on line ℓ_5
178 : $P_{29789} = (28, 1, 28, 1)$ lies on line ℓ_4
179 : $P_{30626} = (1, 28, 28, 1)$ lies on line ℓ_5
180 : $P_{30814} = (29, 1, 29, 1)$ lies on line ℓ_4
181 : $P_{31682} = (1, 29, 29, 1)$ lies on line ℓ_5
182 : $P_{31839} = (30, 1, 30, 1)$ lies on line ℓ_4
183 : $P_{32738} = (1, 30, 30, 1)$ lies on line ℓ_5
184 : $P_{32864} = (31, 1, 31, 1)$ lies on line ℓ_4
185 : $P_{33794} = (1, 31, 31, 1)$ lies on line ℓ_5

The single points on the surface are:

Points on surface but on no line

The surface has 930 points not on any line:
The points on the surface but not on lines are:

0 : $P_{123} = (24, 2, 1, 0)$
1 : $P_{155} = (24, 3, 1, 0)$
2 : $P_{170} = (7, 4, 1, 0)$
3 : $P_{202} = (7, 5, 1, 0)$
4 : $P_{257} = (30, 6, 1, 0)$
5 : $P_{289} = (30, 7, 1, 0)$
6 : $P_{317} = (26, 8, 1, 0)$
7 : $P_{349} = (26, 9, 1, 0)$
8 : $P_{358} = (3, 10, 1, 0)$
9 : $P_{390} = (3, 11, 1, 0)$
10 : $P_{447} = (28, 12, 1, 0)$
11 : $P_{479} = (28, 13, 1, 0)$
12 : $P_{488} = (5, 14, 1, 0)$
13 : $P_{520} = (5, 15, 1, 0)$
14 : $P_{568} = (21, 16, 1, 0)$
15 : $P_{600} = (21, 17, 1, 0)$
16 : $P_{623} = (12, 18, 1, 0)$
17 : $P_{655} = (12, 19, 1, 0)$
18 : $P_{694} = (19, 20, 1, 0)$
19 : $P_{726} = (19, 21, 1, 0)$
20 : $P_{749} = (10, 22, 1, 0)$
21 : $P_{781} = (10, 23, 1, 0)$
22 : $P_{817} = (14, 24, 1, 0)$
23 : $P_{849} = (14, 25, 1, 0)$
24 : $P_{890} = (23, 26, 1, 0)$
25 : $P_{922} = (23, 27, 1, 0)$
26 : $P_{939} = (8, 28, 1, 0)$
27 : $P_{971} = (8, 29, 1, 0)$
28 : $P_{1012} = (17, 30, 1, 0)$
29 : $P_{1044} = (17, 31, 1, 0)$
30 : $P_{1146} = (24, 2, 0, 1)$
31 : $P_{1178} = (24, 3, 0, 1)$
32 : $P_{1193} = (7, 4, 0, 1)$
33 : $P_{1225} = (7, 5, 0, 1)$
34 : $P_{1280} = (30, 6, 0, 1)$
35 : $P_{1312} = (30, 7, 0, 1)$
36 : $P_{1340} = (26, 8, 0, 1)$
37 : $P_{1372} = (26, 9, 0, 1)$
38 : $P_{1381} = (3, 10, 0, 1)$
39 : $P_{1413} = (3, 11, 0, 1)$

$40: P_{1470} = (28, 12, 0, 1)$
$41: P_{1502} = (28, 13, 0, 1)$
$42: P_{1511} = (5, 14, 0, 1)$
$43: P_{1543} = (5, 15, 0, 1)$
$44: P_{1591} = (21, 16, 0, 1)$
$45: P_{1623} = (21, 17, 0, 1)$
$46: P_{1646} = (12, 18, 0, 1)$
$47: P_{1678} = (12, 19, 0, 1)$
$48: P_{1717} = (19, 20, 0, 1)$
$49: P_{1749} = (19, 21, 0, 1)$
$50: P_{1772} = (10, 22, 0, 1)$
$51: P_{1804} = (10, 23, 0, 1)$
$52: P_{1840} = (14, 24, 0, 1)$
$53: P_{1872} = (14, 25, 0, 1)$
$54: P_{1913} = (23, 26, 0, 1)$
$55: P_{1945} = (23, 27, 0, 1)$
$56: P_{1962} = (8, 28, 0, 1)$
$57: P_{1994} = (8, 29, 0, 1)$
$58: P_{2035} = (17, 30, 0, 1)$
$59: P_{2067} = (17, 31, 0, 1)$
$60: P_{3129} = (24, 0, 2, 1)$
$61: P_{3239} = (6, 4, 2, 1)$
$62: P_{3277} = (12, 5, 2, 1)$
$63: P_{3322} = (25, 6, 2, 1)$
$64: P_{3337} = (8, 7, 2, 1)$
$65: P_{3384} = (23, 8, 2, 1)$
$66: P_{3411} = (18, 9, 2, 1)$
$67: P_{3441} = (16, 10, 2, 1)$
$68: P_{3474} = (17, 11, 2, 1)$
$69: P_{3489} = (0, 12, 2, 1)$
$70: P_{3541} = (20, 13, 2, 1)$
$71: P_{3563} = (10, 14, 2, 1)$
$72: P_{3607} = (22, 15, 2, 1)$
$73: P_{3639} = (22, 16, 2, 1)$
$74: P_{3679} = (30, 17, 2, 1)$
$75: P_{3684} = (3, 18, 2, 1)$
$76: P_{3740} = (27, 19, 2, 1)$
$77: P_{3760} = (15, 20, 2, 1)$
$78: P_{3806} = (29, 21, 2, 1)$
$79: P_{3816} = (7, 22, 2, 1)$
$80: P_{3852} = (11, 23, 2, 1)$
$81: P_{3897} = (24, 24, 2, 1)$
$82: P_{3926} = (21, 25, 2, 1)$
$83: P_{3943} = (6, 26, 2, 1)$
$84: P_{3994} = (25, 27, 2, 1)$
$85: P_{4027} = (26, 28, 2, 1)$
$86: P_{4058} = (25, 29, 2, 1)$
$87: P_{4071} = (6, 30, 2, 1)$
$88: P_{4119} = (22, 31, 2, 1)$
$89: P_{4153} = (24, 0, 3, 1)$
$90: P_{4277} = (20, 4, 3, 1)$
$91: P_{4320} = (31, 5, 3, 1)$
$92: P_{4332} = (11, 6, 3, 1)$
$93: P_{4380} = (27, 7, 3, 1)$
$94: P_{4412} = (27, 8, 3, 1)$
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903 : $P_{32916} = (19, 3, 31, 1)$

904 : $P_{32954} = (25, 4, 31, 1)$
905 : $P_{32963} = (2, 5, 31, 1)$
906 : $P_{33001} = (8, 6, 31, 1)$
907 : $P_{33034} = (9, 7, 31, 1)$
908 : $P_{33064} = (7, 8, 31, 1)$
909 : $P_{33094} = (5, 9, 31, 1)$
910 : $P_{33137} = (16, 10, 31, 1)$
911 : $P_{33179} = (26, 11, 31, 1)$
912 : $P_{33196} = (11, 12, 31, 1)$
913 : $P_{33232} = (15, 13, 31, 1)$
914 : $P_{33272} = (23, 14, 31, 1)$
915 : $P_{33295} = (14, 15, 31, 1)$
916 : $P_{33339} = (26, 16, 31, 1)$
917 : $P_{33362} = (17, 17, 31, 1)$
918 : $P_{33407} = (30, 18, 31, 1)$
919 : $P_{33418} = (9, 19, 31, 1)$
920 : $P_{33450} = (9, 20, 31, 1)$
921 : $P_{33487} = (14, 21, 31, 1)$
922 : $P_{33533} = (28, 22, 31, 1)$
923 : $P_{33558} = (21, 23, 31, 1)$
924 : $P_{33572} = (3, 24, 31, 1)$
925 : $P_{33601} = (0, 25, 31, 1)$
926 : $P_{33647} = (14, 26, 31, 1)$
927 : $P_{33691} = (26, 27, 31, 1)$
928 : $P_{33709} = (12, 28, 31, 1)$
929 : $P_{33747} = (18, 29, 31, 1)$

Line Intersection Graph

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

Neighbor sets in the line intersection graph:
Line 0 intersects

Line	ℓ_1	ℓ_2	ℓ_5
in point	P_0	P_0	P_{67}

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_4
in point	P_0	P_0	P_{1090}

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_3
in point	P_0	P_0	P_{2082}

Line 3 intersects

Line	ℓ_2	ℓ_4	ℓ_5
in point	P_{2082}	P_4	P_4

Line 4 intersects

Line	ℓ_1	ℓ_3	ℓ_5
in point	P_{1090}	P_4	P_4

Line 5 intersects

Line	ℓ_0	ℓ_3	ℓ_4
in point	P_{67}	P_4	P_4

The surface has 1121 points:
Too many to print.