Rank-65869 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

(0, 1, 0, 1, 0, 0, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is -2112814011

General information

Number of lines	2
Number of points	1057
Number of singular points	2
Number of Eckardt points	0
Number of double points	1
Number of single points	64
Number of points off lines	992
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^2
Type of lines on points	2, 1^{64}, 0^{992}

Singular Points

The surface has 2 singular points:

0 : $P_2 = \mathbf{P}(0,0,1,0) = \mathbf{P}(0,0,1,0)$
1 : $P_{1059} = \mathbf{P}(1,0,0,1) = \mathbf{P}(1,0,0,1)$

The 2 Lines

The lines and their Pluecker coordinates are:

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

$$\ell_1 = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{34848} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{34848} = \mathbf{Pl}(0,1,1,0,0,0)_{34}$$

Rank of lines: (1024, 34848)
Rank of points on Klein quadric: (2, 34)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 1 Double points:
The double points on the surface are:

$P_2 = (0,0,1,0) = \ell_0 \cap \ell_1$

Single Points

The surface has 64 single points:
The single points on the surface are:

0 : $P_0 = (1,0,0,0)$ lies on line ℓ_0
1 : $P_{36} = (1,0,1,0)$ lies on line ℓ_0
2 : $P_{37} = (2,0,1,0)$ lies on line ℓ_0
3 : $P_{38} = (3,0,1,0)$ lies on line ℓ_0
4 : $P_{39} = (4,0,1,0)$ lies on line ℓ_0
5 : $P_{40} = (5,0,1,0)$ lies on line ℓ_0
6 : $P_{41} = (6,0,1,0)$ lies on line ℓ_0
7 : $P_{42} = (7,0,1,0)$ lies on line ℓ_0
8 : $P_{43} = (8,0,1,0)$ lies on line ℓ_0
9 : $P_{44} = (9,0,1,0)$ lies on line ℓ_0
10 : $P_{45} = (10,0,1,0)$ lies on line ℓ_0
11 : $P_{46} = (11,0,1,0)$ lies on line ℓ_0
12 : $P_{47} = (12,0,1,0)$ lies on line ℓ_0
13 : $P_{48} = (13,0,1,0)$ lies on line ℓ_0
14 : $P_{49} = (14,0,1,0)$ lies on line ℓ_0
15 : $P_{50} = (15,0,1,0)$ lies on line ℓ_0
16 : $P_{51} = (16,0,1,0)$ lies on line ℓ_0
17 : $P_{52} = (17,0,1,0)$ lies on line ℓ_0
18 : $P_{53} = (18,0,1,0)$ lies on line ℓ_0
19 : $P_{54} = (19,0,1,0)$ lies on line ℓ_0
20 : $P_{55} = (20,0,1,0)$ lies on line ℓ_0
21 : $P_{56} = (21,0,1,0)$ lies on line ℓ_0
22 : $P_{57} = (22,0,1,0)$ lies on line ℓ_0
23 : $P_{58} = (23,0,1,0)$ lies on line ℓ_0
24 : $P_{59} = (24,0,1,0)$ lies on line ℓ_0
25 : $P_{60} = (25,0,1,0)$ lies on line ℓ_0
26 : $P_{61} = (26,0,1,0)$ lies on line ℓ_0
27 : $P_{62} = (27,0,1,0)$ lies on line ℓ_0
28 : $P_{63} = (28,0,1,0)$ lies on line ℓ_0
29 : $P_{64} = (29,0,1,0)$ lies on line ℓ_0
30 : $P_{65} = (30,0,1,0)$ lies on line ℓ_0
31 : $P_{66} = (31,0,1,0)$ lies on line ℓ_0
32 : $P_{1059} = (1,0,0,1)$ lies on line ℓ_1
33 : $P_{2083} = (1,0,1,1)$ lies on line ℓ_1
34 : $P_{3106} = (1,0,2,1)$ lies on line ℓ_1
35 : $P_{4130} = (1,0,3,1)$ lies on line ℓ_1
36 : $P_{5154} = (1,0,4,1)$ lies on line ℓ_1
37 : $P_{6178} = (1,0,5,1)$ lies on line ℓ_1
38 : $P_{7202} = (1,0,6,1)$ lies on line ℓ_1
39 : $P_{8226} = (1,0,7,1)$ lies on line ℓ_1
40 : $P_{9250} = (1,0,8,1)$ lies on line ℓ_1
41 : $P_{10274} = (1,0,9,1)$ lies on line ℓ_1
42 : $P_{11298} = (1,0,10,1)$ lies on line ℓ_1
43 : $P_{12322} = (1,0,11,1)$ lies on line ℓ_1
44 : $P_{13346} = (1,0,12,1)$ lies on line ℓ_1
45 : $P_{14370} = (1,0,13,1)$ lies on line ℓ_1
46 : $P_{15394} = (1,0,14,1)$ lies on line ℓ_1
47 : $P_{16418} = (1,0,15,1)$ lies on line ℓ_1
48 : $P_{17442} = (1,0,16,1)$ lies on line ℓ_1
49 : $P_{18466} = (1,0,17,1)$ lies on line ℓ_1
50 : $P_{19490} = (1,0,18,1)$ lies on line ℓ_1
51 : $P_{20514} = (1,0,19,1)$ lies on line ℓ_1
52 : $P_{21538} = (1,0,20,1)$ lies on line ℓ_1
53 : $P_{22562} = (1,0,21,1)$ lies on line ℓ_1
54 : $P_{23586} = (1,0,22,1)$ lies on line ℓ_1
55 : $P_{24610} = (1,0,23,1)$ lies on line ℓ_1
56 : $P_{25634} = (1,0,24,1)$ lies on line ℓ_1
57 : $P_{26658} = (1,0,25,1)$ lies on line ℓ_1

58 : $P_{27682} = (1, 0, 26, 1)$ lies on line ℓ_1
59 : $P_{28706} = (1, 0, 27, 1)$ lies on line ℓ_1
60 : $P_{29730} = (1, 0, 28, 1)$ lies on line ℓ_1
61 : $P_{30754} = (1, 0, 29, 1)$ lies on line ℓ_1
62 : $P_{31778} = (1, 0, 30, 1)$ lies on line ℓ_1
63 : $P_{32802} = (1, 0, 31, 1)$ lies on line ℓ_1

The single points on the surface are:

Points on surface but on no line

The surface has 992 points not on any line:
The points on the surface but not on lines are:

0 : $P_{67} = (0, 1, 1, 0)$
1 : $P_{105} = (6, 2, 1, 0)$
2 : $P_{137} = (6, 3, 1, 0)$
3 : $P_{183} = (20, 4, 1, 0)$
4 : $P_{215} = (20, 5, 1, 0)$
5 : $P_{245} = (18, 6, 1, 0)$
6 : $P_{277} = (18, 7, 1, 0)$
7 : $P_{293} = (2, 8, 1, 0)$
8 : $P_{325} = (2, 9, 1, 0)$
9 : $P_{359} = (4, 10, 1, 0)$
10 : $P_{391} = (4, 11, 1, 0)$
11 : $P_{441} = (22, 12, 1, 0)$
12 : $P_{473} = (22, 13, 1, 0)$
13 : $P_{499} = (16, 14, 1, 0)$
14 : $P_{531} = (16, 15, 1, 0)$
15 : $P_{576} = (29, 16, 1, 0)$
16 : $P_{608} = (29, 17, 1, 0)$
17 : $P_{638} = (27, 18, 1, 0)$
18 : $P_{670} = (27, 19, 1, 0)$
19 : $P_{684} = (9, 20, 1, 0)$
20 : $P_{716} = (9, 21, 1, 0)$
21 : $P_{754} = (15, 22, 1, 0)$
22 : $P_{786} = (15, 23, 1, 0)$
23 : $P_{834} = (31, 24, 1, 0)$
24 : $P_{866} = (31, 25, 1, 0)$
25 : $P_{892} = (25, 26, 1, 0)$
26 : $P_{924} = (25, 27, 1, 0)$
27 : $P_{942} = (11, 28, 1, 0)$
28 : $P_{974} = (11, 29, 1, 0)$
29 : $P_{1008} = (13, 30, 1, 0)$
30 : $P_{1040} = (13, 31, 1, 0)$
31 : $P_{1090} = (0, 1, 0, 1)$
32 : $P_{1140} = (18, 2, 0, 1)$
33 : $P_{1164} = (10, 3, 0, 1)$
34 : $P_{1195} = (9, 4, 0, 1)$
35 : $P_{1232} = (14, 5, 0, 1)$
36 : $P_{1279} = (29, 6, 0, 1)$
37 : $P_{1285} = (3, 7, 0, 1)$
38 : $P_{1327} = (13, 8, 0, 1)$
39 : $P_{1369} = (23, 9, 0, 1)$
40 : $P_{1405} = (27, 10, 0, 1)$
41 : $P_{1434} = (24, 11, 0, 1)$
42 : $P_{1461} = (19, 12, 0, 1)$
43 : $P_{1489} = (15, 13, 0, 1)$
44 : $P_{1508} = (2, 14, 0, 1)$
45 : $P_{1545} = (7, 15, 0, 1)$
46 : $P_{1581} = (11, 16, 0, 1)$
47 : $P_{1632} = (30, 17, 0, 1)$
48 : $P_{1662} = (28, 18, 0, 1)$
49 : $P_{1682} = (16, 19, 0, 1)$
50 : $P_{1720} = (22, 20, 0, 1)$
51 : $P_{1735} = (5, 21, 0, 1)$
52 : $P_{1768} = (6, 22, 0, 1)$
53 : $P_{1806} = (12, 23, 0, 1)$
54 : $P_{1852} = (26, 24, 0, 1)$
55 : $P_{1878} = (20, 25, 0, 1)$
56 : $P_{1898} = (8, 26, 0, 1)$
57 : $P_{1953} = (31, 27, 0, 1)$
58 : $P_{1971} = (17, 28, 0, 1)$
59 : $P_{2011} = (25, 29, 0, 1)$
60 : $P_{2022} = (4, 30, 0, 1)$
61 : $P_{2071} = (21, 31, 0, 1)$
62 : $P_{2289} = (16, 6, 1, 1)$
63 : $P_{2295} = (22, 6, 1, 1)$
64 : $P_{2360} = (23, 8, 1, 1)$
65 : $P_{2368} = (31, 8, 1, 1)$
66 : $P_{2419} = (18, 10, 1, 1)$
67 : $P_{2425} = (24, 10, 1, 1)$
68 : $P_{2536} = (7, 14, 1, 1)$
69 : $P_{2538} = (9, 14, 1, 1)$
70 : $P_{2704} = (15, 19, 1, 1)$
71 : $P_{2717} = (28, 19, 1, 1)$
72 : $P_{2734} = (13, 20, 1, 1)$
73 : $P_{2746} = (25, 20, 1, 1)$
74 : $P_{2787} = (2, 22, 1, 1)$
75 : $P_{2805} = (20, 22, 1, 1)$
76 : $P_{2885} = (4, 25, 1, 1)$
77 : $P_{2910} = (29, 25, 1, 1)$
78 : $P_{3015} = (6, 29, 1, 1)$
79 : $P_{3036} = (27, 29, 1, 1)$

$80: P_{3052} = (11, 30, 1, 1)$
$81: P_{3062} = (21, 30, 1, 1)$
$82: P_{3149} = (12, 1, 2, 1)$
$83: P_{3151} = (14, 1, 2, 1)$
$84: P_{3196} = (27, 2, 2, 1)$
$85: P_{3200} = (31, 2, 2, 1)$
$86: P_{3318} = (21, 6, 2, 1)$
$87: P_{3322} = (25, 6, 2, 1)$
$88: P_{3370} = (9, 8, 2, 1)$
$89: P_{3386} = (25, 8, 2, 1)$
$90: P_{3401} = (8, 9, 2, 1)$
$91: P_{3419} = (26, 9, 2, 1)$
$92: P_{3490} = (1, 12, 2, 1)$
$93: P_{3514} = (25, 12, 2, 1)$
$94: P_{3526} = (5, 13, 2, 1)$
$95: P_{3552} = (31, 13, 2, 1)$
$96: P_{3554} = (1, 14, 2, 1)$
$97: P_{3582} = (29, 14, 2, 1)$
$98: P_{3973} = (4, 27, 2, 1)$
$99: P_{3992} = (23, 27, 2, 1)$
$100: P_{4004} = (3, 28, 2, 1)$
$101: P_{4031} = (30, 28, 2, 1)$
$102: P_{4067} = (2, 30, 2, 1)$
$103: P_{4092} = (27, 30, 2, 1)$
$104: P_{4210} = (17, 2, 3, 1)$
$105: P_{4216} = (23, 2, 3, 1)$
$106: P_{4274} = (17, 4, 3, 1)$
$107: P_{4286} = (29, 4, 3, 1)$
$108: P_{4306} = (17, 5, 3, 1)$
$109: P_{4319} = (30, 5, 3, 1)$
$110: P_{4371} = (18, 7, 3, 1)$
$111: P_{4380} = (27, 7, 3, 1)$
$112: P_{4395} = (10, 8, 3, 1)$
$113: P_{4403} = (18, 8, 3, 1)$
$114: P_{4430} = (13, 9, 3, 1)$
$115: P_{4439} = (22, 9, 3, 1)$
$116: P_{4519} = (6, 12, 3, 1)$
$117: P_{4531} = (18, 12, 3, 1)$
$118: P_{4651} = (10, 16, 3, 1)$
$119: P_{4672} = (31, 16, 3, 1)$
$120: P_{4750} = (13, 19, 3, 1)$
$121: P_{4766} = (29, 19, 3, 1)$
$122: P_{4773} = (4, 20, 3, 1)$
$123: P_{4798} = (29, 20, 3, 1)$
$124: P_{4932} = (3, 25, 3, 1)$
$125: P_{4942} = (13, 25, 3, 1)$
$126: P_{4995} = (2, 27, 3, 1)$
$127: P_{5003} = (10, 27, 3, 1)$
$128: P_{5039} = (14, 28, 3, 1)$
$129: P_{5040} = (15, 28, 3, 1)$
$130: P_{5066} = (9, 29, 3, 1)$
$131: P_{5068} = (11, 29, 3, 1)$
$132: P_{5089} = (0, 30, 3, 1)$
$133: P_{5096} = (7, 30, 3, 1)$
$134: P_{5129} = (8, 31, 3, 1)$
$135: P_{5133} = (12, 31, 3, 1)$
$136: P_{5211} = (26, 1, 4, 1)$
$137: P_{5215} = (30, 1, 4, 1)$
$138: P_{5233} = (16, 2, 4, 1)$
$139: P_{5241} = (24, 2, 4, 1)$
$140: P_{5283} = (2, 4, 4, 1)$
$141: P_{5299} = (18, 4, 4, 1)$
$142: P_{5479} = (6, 10, 4, 1)$
$143: P_{5484} = (11, 10, 4, 1)$
$144: P_{5508} = (3, 11, 4, 1)$
$145: P_{5515} = (10, 11, 4, 1)$
$146: P_{5763} = (2, 19, 4, 1)$
$147: P_{5765} = (4, 19, 4, 1)$
$148: P_{5799} = (6, 20, 4, 1)$
$149: P_{5821} = (28, 20, 4, 1)$
$150: P_{5894} = (5, 23, 4, 1)$
$151: P_{5908} = (19, 23, 4, 1)$
$152: P_{5986} = (1, 26, 4, 1)$
$153: P_{5991} = (6, 26, 4, 1)$
$154: P_{6034} = (17, 27, 4, 1)$
$155: P_{6035} = (18, 27, 4, 1)$
$156: P_{6114} = (1, 30, 4, 1)$
$157: P_{6135} = (22, 30, 4, 1)$
$158: P_{6245} = (4, 2, 5, 1)$
$159: P_{6255} = (14, 2, 5, 1)$
$160: P_{6317} = (12, 4, 5, 1)$
$161: P_{6329} = (24, 4, 5, 1)$
$162: P_{6374} = (5, 6, 5, 1)$
$163: P_{6396} = (27, 6, 5, 1)$
$164: P_{6455} = (22, 8, 5, 1)$
$165: P_{6460} = (27, 8, 5, 1)$
$166: P_{6506} = (9, 10, 5, 1)$
$167: P_{6511} = (14, 10, 5, 1)$
$168: P_{6554} = (25, 11, 5, 1)$
$169: P_{6556} = (27, 11, 5, 1)$
$170: P_{6607} = (14, 13, 5, 1)$
$171: P_{6611} = (18, 13, 5, 1)$
$172: P_{6701} = (12, 16, 5, 1)$
$173: P_{6711} = (22, 16, 5, 1)$
$174: P_{6733} = (12, 17, 5, 1)$
$175: P_{6740} = (19, 17, 5, 1)$
$176: P_{6763} = (10, 18, 5, 1)$
$177: P_{6779} = (26, 18, 5, 1)$
$178: P_{6785} = (0, 19, 5, 1)$
$179: P_{6806} = (21, 19, 5, 1)$
$180: P_{6851} = (2, 21, 5, 1)$
$181: P_{6858} = (9, 21, 5, 1)$
$182: P_{6892} = (11, 22, 5, 1)$
$183: P_{6896} = (15, 22, 5, 1)$
$184: P_{6943} = (30, 23, 5, 1)$
$185: P_{6944} = (31, 23, 5, 1)$
$186: P_{7018} = (9, 26, 5, 1)$
$187: P_{7029} = (20, 26, 5, 1)$

188 : $P_{7121} = (16, 29, 5, 1)$
189 : $P_{7127} = (22, 29, 5, 1)$
190 : $P_{7268} = (3, 2, 6, 1)$
191 : $P_{7280} = (15, 2, 6, 1)$
192 : $P_{7299} = (2, 3, 6, 1)$
193 : $P_{7305} = (8, 3, 6, 1)$
194 : $P_{7472} = (15, 8, 6, 1)$
195 : $P_{7483} = (26, 8, 6, 1)$
196 : $P_{7491} = (2, 9, 6, 1)$
197 : $P_{7506} = (17, 9, 6, 1)$
198 : $P_{7526} = (5, 10, 6, 1)$
199 : $P_{7549} = (28, 10, 6, 1)$
200 : $P_{7553} = (0, 11, 6, 1)$
201 : $P_{7584} = (31, 11, 6, 1)$
202 : $P_{7587} = (2, 12, 6, 1)$
203 : $P_{7600} = (15, 12, 6, 1)$
204 : $P_{7691} = (10, 15, 6, 1)$
205 : $P_{7694} = (13, 15, 6, 1)$
206 : $P_{7748} = (3, 17, 6, 1)$
207 : $P_{7755} = (10, 17, 6, 1)$
208 : $P_{7797} = (20, 18, 6, 1)$
209 : $P_{7800} = (23, 18, 6, 1)$
210 : $P_{7876} = (3, 21, 6, 1)$
211 : $P_{7891} = (18, 21, 6, 1)$
212 : $P_{7919} = (14, 22, 6, 1)$
213 : $P_{7926} = (21, 22, 6, 1)$
214 : $P_{7937} = (0, 23, 6, 1)$
215 : $P_{7966} = (29, 23, 6, 1)$
216 : $P_{7979} = (10, 24, 6, 1)$
217 : $P_{7985} = (16, 24, 6, 1)$
218 : $P_{8033} = (0, 26, 6, 1)$
219 : $P_{8055} = (22, 26, 6, 1)$
220 : $P_{8073} = (8, 27, 6, 1)$
221 : $P_{8089} = (24, 27, 6, 1)$
222 : $P_{8122} = (25, 28, 6, 1)$
223 : $P_{8124} = (27, 28, 6, 1)$
224 : $P_{8167} = (6, 30, 6, 1)$
225 : $P_{8169} = (8, 30, 6, 1)$
226 : $P_{8295} = (6, 2, 7, 1)$
227 : $P_{8297} = (8, 2, 7, 1)$
228 : $P_{8518} = (5, 9, 7, 1)$
229 : $P_{8544} = (31, 9, 7, 1)$
230 : $P_{8619} = (10, 12, 7, 1)$
231 : $P_{8620} = (11, 12, 7, 1)$
232 : $P_{8676} = (3, 14, 7, 1)$
233 : $P_{8685} = (12, 14, 7, 1)$
234 : $P_{8745} = (8, 16, 7, 1)$
235 : $P_{8760} = (23, 16, 7, 1)$
236 : $P_{8782} = (13, 17, 7, 1)$
237 : $P_{8790} = (21, 17, 7, 1)$
238 : $P_{8808} = (7, 18, 7, 1)$
239 : $P_{8823} = (22, 18, 7, 1)$
240 : $P_{8865} = (0, 20, 7, 1)$
241 : $P_{8868} = (3, 20, 7, 1)$
242 : $P_{8905} = (8, 21, 7, 1)$
243 : $P_{8909} = (12, 21, 7, 1)$
244 : $P_{8948} = (19, 22, 7, 1)$
245 : $P_{8959} = (30, 22, 7, 1)$
246 : $P_{9133} = (12, 28, 7, 1)$
247 : $P_{9139} = (18, 28, 7, 1)$
248 : $P_{9156} = (3, 29, 7, 1)$
249 : $P_{9179} = (26, 29, 7, 1)$
250 : $P_{9288} = (7, 1, 8, 1)$
251 : $P_{9296} = (15, 1, 8, 1)$
252 : $P_{9360} = (15, 3, 8, 1)$
253 : $P_{9368} = (23, 3, 8, 1)$
254 : $P_{9429} = (20, 5, 8, 1)$
255 : $P_{9434} = (25, 5, 8, 1)$
256 : $P_{9450} = (9, 6, 8, 1)$
257 : $P_{9469} = (28, 6, 8, 1)$
258 : $P_{9474} = (1, 7, 8, 1)$
259 : $P_{9501} = (28, 7, 8, 1)$
260 : $P_{9525} = (20, 8, 8, 1)$
261 : $P_{9535} = (30, 8, 8, 1)$
262 : $P_{9565} = (28, 9, 8, 1)$
263 : $P_{9567} = (30, 9, 8, 1)$
264 : $P_{9584} = (15, 10, 8, 1)$
265 : $P_{9590} = (21, 10, 8, 1)$
266 : $P_{9649} = (16, 12, 8, 1)$
267 : $P_{9664} = (31, 12, 8, 1)$
268 : $P_{9730} = (1, 15, 8, 1)$
269 : $P_{9751} = (22, 15, 8, 1)$
270 : $P_{9880} = (23, 19, 8, 1)$
271 : $P_{9884} = (27, 19, 8, 1)$
272 : $P_{9961} = (8, 22, 8, 1)$
273 : $P_{9962} = (9, 22, 8, 1)$
274 : $P_{10026} = (9, 24, 8, 1)$
275 : $P_{10040} = (23, 24, 8, 1)$
276 : $P_{10129} = (16, 27, 8, 1)$
277 : $P_{10135} = (22, 27, 8, 1)$
278 : $P_{10158} = (13, 28, 8, 1)$
279 : $P_{10167} = (22, 28, 8, 1)$
280 : $P_{10179} = (2, 29, 8, 1)$
281 : $P_{10194} = (17, 29, 8, 1)$
282 : $P_{10257} = (16, 31, 8, 1)$
283 : $P_{10260} = (19, 31, 8, 1)$
284 : $P_{10321} = (16, 1, 9, 1)$
285 : $P_{10330} = (25, 1, 9, 1)$
286 : $P_{10423} = (22, 4, 9, 1)$
287 : $P_{10424} = (23, 4, 9, 1)$
288 : $P_{10476} = (11, 6, 9, 1)$
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695 : $P_{23838} = (29, 7, 22, 1)$
696 : $P_{23877} = (4, 9, 22, 1)$
697 : $P_{23892} = (19, 9, 22, 1)$
698 : $P_{23927} = (22, 10, 22, 1)$
699 : $P_{23935} = (30, 10, 22, 1)$
700 : $P_{23982} = (13, 12, 22, 1)$
701 : $P_{23999} = (30, 12, 22, 1)$
702 : $P_{24010} = (9, 13, 22, 1)$
703 : $P_{24013} = (12, 13, 22, 1)$
704 : $P_{24086} = (21, 15, 22, 1)$
705 : $P_{24090} = (25, 15, 22, 1)$
706 : $P_{24125} = (28, 16, 22, 1)$
707 : $P_{24127} = (30, 16, 22, 1)$
708 : $P_{24129} = (0, 17, 22, 1)$
709 : $P_{24149} = (20, 17, 22, 1)$
710 : $P_{24161} = (0, 18, 22, 1)$
711 : $P_{24172} = (11, 18, 22, 1)$
712 : $P_{24200} = (7, 19, 22, 1)$
713 : $P_{24219} = (26, 19, 22, 1)$
714 : $P_{24233} = (8, 20, 22, 1)$
715 : $P_{24249} = (24, 20, 22, 1)$
716 : $P_{24257} = (0, 21, 22, 1)$
717 : $P_{24263} = (6, 21, 22, 1)$
718 : $P_{24365} = (12, 24, 22, 1)$
719 : $P_{24368} = (15, 24, 22, 1)$
720 : $P_{24483} = (2, 28, 22, 1)$
721 : $P_{24500} = (19, 28, 22, 1)$
722 : $P_{24554} = (9, 30, 22, 1)$
723 : $P_{24562} = (17, 30, 22, 1)$
724 : $P_{24580} = (3, 31, 22, 1)$
725 : $P_{24590} = (13, 31, 22, 1)$
726 : $P_{24694} = (21, 2, 23, 1)$
727 : $P_{24703} = (30, 2, 23, 1)$

728 : $P_{24709} = (4, 3, 23, 1)$
729 : $P_{24729} = (24, 3, 23, 1)$
730 : $P_{24787} = (18, 5, 23, 1)$
731 : $P_{24788} = (19, 5, 23, 1)$
732 : $P_{24813} = (12, 6, 23, 1)$
733 : $P_{24818} = (17, 6, 23, 1)$
734 : $P_{24838} = (5, 7, 23, 1)$
735 : $P_{24848} = (15, 7, 23, 1)$
736 : $P_{24870} = (5, 8, 23, 1)$
737 : $P_{24877} = (12, 8, 23, 1)$
738 : $P_{25047} = (22, 13, 23, 1)$
739 : $P_{25055} = (30, 13, 23, 1)$
740 : $P_{25109} = (20, 15, 23, 1)$
741 : $P_{25112} = (23, 15, 23, 1)$
742 : $P_{25259} = (10, 20, 23, 1)$
743 : $P_{25263} = (14, 20, 23, 1)$
744 : $P_{25382} = (5, 24, 23, 1)$
745 : $P_{25407} = (30, 24, 23, 1)$
746 : $P_{25409} = (0, 25, 23, 1)$
747 : $P_{25421} = (12, 25, 23, 1)$
748 : $P_{25612} = (11, 31, 23, 1)$
749 : $P_{25627} = (26, 31, 23, 1)$
750 : $P_{25780} = (19, 4, 24, 1)$
751 : $P_{25789} = (28, 4, 24, 1)$
752 : $P_{25800} = (7, 5, 24, 1)$
753 : $P_{25809} = (16, 5, 24, 1)$
754 : $P_{25825} = (0, 6, 24, 1)$
755 : $P_{25851} = (26, 6, 24, 1)$
756 : $P_{25874} = (17, 7, 24, 1)$
757 : $P_{25876} = (19, 7, 24, 1)$
758 : $P_{25970} = (17, 10, 24, 1)$
759 : $P_{25979} = (26, 10, 24, 1)$
760 : $P_{26185} = (8, 17, 24, 1)$
761 : $P_{26186} = (9, 17, 24, 1)$
762 : $P_{26212} = (3, 18, 24, 1)$
763 : $P_{26224} = (15, 18, 24, 1)$
764 : $P_{26285} = (12, 20, 24, 1)$
765 : $P_{26299} = (26, 20, 24, 1)$
766 : $P_{26322} = (17, 21, 24, 1)$
767 : $P_{26336} = (31, 21, 24, 1)$
768 : $P_{26516} = (19, 27, 24, 1)$
769 : $P_{26522} = (25, 27, 24, 1)$
770 : $P_{26575} = (14, 29, 24, 1)$
771 : $P_{26591} = (30, 29, 24, 1)$
772 : $P_{26649} = (24, 31, 24, 1)$
773 : $P_{26654} = (29, 31, 24, 1)$
774 : $P_{26825} = (8, 5, 25, 1)$
775 : $P_{26843} = (26, 5, 25, 1)$
776 : $P_{26907} = (26, 7, 25, 1)$
777 : $P_{26912} = (31, 7, 25, 1)$
778 : $P_{26916} = (3, 8, 25, 1)$
779 : $P_{26934} = (21, 8, 25, 1)$
780 : $P_{26945} = (0, 9, 25, 1)$
781 : $P_{26960} = (15, 9, 25, 1)$
782 : $P_{27017} = (8, 11, 25, 1)$
783 : $P_{27025} = (16, 11, 25, 1)$
784 : $P_{27041} = (0, 12, 25, 1)$
785 : $P_{27070} = (29, 12, 25, 1)$
786 : $P_{27092} = (19, 13, 25, 1)$
787 : $P_{27096} = (23, 13, 25, 1)$
788 : $P_{27124} = (19, 14, 25, 1)$
789 : $P_{27130} = (25, 14, 25, 1)$
790 : $P_{27212} = (11, 17, 25, 1)$
791 : $P_{27228} = (27, 17, 25, 1)$
792 : $P_{27238} = (5, 18, 25, 1)$
793 : $P_{27260} = (27, 18, 25, 1)$
794 : $P_{27276} = (11, 19, 25, 1)$
795 : $P_{27277} = (12, 19, 25, 1)$
796 : $P_{27342} = (13, 21, 25, 1)$
797 : $P_{27351} = (22, 21, 25, 1)$
798 : $P_{27397} = (4, 23, 25, 1)$
799 : $P_{27401} = (8, 23, 25, 1)$
800 : $P_{27508} = (19, 26, 25, 1)$
801 : $P_{27516} = (27, 26, 25, 1)$
802 : $P_{27532} = (11, 27, 25, 1)$
803 : $P_{27547} = (26, 27, 25, 1)$
804 : $P_{27553} = (0, 28, 25, 1)$
805 : $P_{27573} = (20, 28, 25, 1)$
806 : $P_{27592} = (7, 29, 25, 1)$
807 : $P_{27595} = (10, 29, 25, 1)$
808 : $P_{27655} = (6, 31, 25, 1)$
809 : $P_{27677} = (28, 31, 25, 1)$
810 : $P_{27750} = (5, 2, 26, 1)$
811 : $P_{27765} = (20, 2, 26, 1)$
812 : $P_{27782} = (5, 3, 26, 1)$
813 : $P_{27791} = (14, 3, 26, 1)$
814 : $P_{27817} = (8, 4, 26, 1)$
815 : $P_{27824} = (15, 4, 26, 1)$
816 : $P_{27875} = (2, 6, 26, 1)$
817 : $P_{27893} = (20, 6, 26, 1)$
818 : $P_{28105} = (8, 13, 26, 1)$
819 : $P_{28124} = (27, 13, 26, 1)$
820 : $P_{28129} = (0, 14, 26, 1)$
821 : $P_{28153} = (24, 14, 26, 1)$
822 : $P_{28178} = (17, 15, 26, 1)$
823 : $P_{28180} = (19, 15, 26, 1)$
824 : $P_{28250} = (25, 17, 26, 1)$
825 : $P_{28256} = (31, 17, 26, 1)$
826 : $P_{28273} = (16, 18, 26, 1)$
827 : $P_{28286} = (29, 18, 26, 1)$
828 : $P_{28297} = (8, 19, 26, 1)$
829 : $P_{28320} = (31, 19, 26, 1)$
830 : $P_{28330} = (9, 20, 26, 1)$
831 : $P_{28339} = (18, 20, 26, 1)$
832 : $P_{28363} = (10, 21, 26, 1)$
833 : $P_{28364} = (11, 21, 26, 1)$
834 : $P_{28401} = (16, 22, 26, 1)$
835 : $P_{28411} = (26, 22, 26, 1)$

836 : $P_{28462} = (13, 24, 26, 1)$
837 : $P_{28480} = (31, 24, 26, 1)$
838 : $P_{28550} = (5, 27, 26, 1)$
839 : $P_{28573} = (28, 27, 26, 1)$
840 : $P_{28657} = (16, 30, 26, 1)$
841 : $P_{28661} = (20, 30, 26, 1)$
842 : $P_{28747} = (10, 1, 27, 1)$
843 : $P_{28754} = (17, 1, 27, 1)$
844 : $P_{29026} = (1, 10, 27, 1)$
845 : $P_{29045} = (20, 10, 27, 1)$
846 : $P_{29123} = (2, 13, 27, 1)$
847 : $P_{29149} = (28, 13, 27, 1)$
848 : $P_{29166} = (13, 14, 27, 1)$
849 : $P_{29180} = (27, 14, 27, 1)$
850 : $P_{29220} = (3, 16, 27, 1)$
851 : $P_{29232} = (15, 16, 27, 1)$
852 : $P_{29250} = (1, 17, 27, 1)$
853 : $P_{29271} = (22, 17, 27, 1)$
854 : $P_{29293} = (12, 18, 27, 1)$
855 : $P_{29300} = (19, 18, 27, 1)$
856 : $P_{29331} = (18, 19, 27, 1)$
857 : $P_{29335} = (22, 19, 27, 1)$
858 : $P_{29391} = (14, 21, 27, 1)$
859 : $P_{29403} = (26, 21, 27, 1)$
860 : $P_{29512} = (7, 25, 27, 1)$
861 : $P_{29527} = (22, 25, 27, 1)$
862 : $P_{29582} = (13, 27, 27, 1)$
863 : $P_{29584} = (15, 27, 27, 1)$
864 : $P_{29855} = (30, 3, 28, 1)$
865 : $P_{29856} = (31, 3, 28, 1)$
866 : $P_{29929} = (8, 6, 28, 1)$
867 : $P_{29931} = (10, 6, 28, 1)$
868 : $P_{30087} = (6, 11, 28, 1)$
869 : $P_{30109} = (28, 11, 28, 1)$
870 : $P_{30218} = (9, 15, 28, 1)$
871 : $P_{30221} = (12, 15, 28, 1)$
872 : $P_{30255} = (14, 16, 28, 1)$
873 : $P_{30270} = (29, 16, 28, 1)$
874 : $P_{30340} = (3, 19, 28, 1)$
875 : $P_{30354} = (17, 19, 28, 1)$
876 : $P_{30433} = (0, 22, 28, 1)$
877 : $P_{30450} = (17, 22, 28, 1)$
878 : $P_{30468} = (3, 23, 28, 1)$
879 : $P_{30479} = (14, 23, 28, 1)$
880 : $P_{30500} = (3, 24, 28, 1)$
881 : $P_{30508} = (11, 24, 28, 1)$
882 : $P_{30534} = (5, 25, 28, 1)$
883 : $P_{30546} = (17, 25, 28, 1)$
884 : $P_{30563} = (2, 26, 28, 1)$
885 : $P_{30584} = (23, 26, 28, 1)$
886 : $P_{30600} = (7, 27, 28, 1)$
887 : $P_{30607} = (14, 27, 28, 1)$
888 : $P_{30865} = (16, 3, 29, 1)$
889 : $P_{30867} = (18, 3, 29, 1)$
890 : $P_{30895} = (14, 4, 29, 1)$
891 : $P_{30902} = (21, 4, 29, 1)$
892 : $P_{30913} = (0, 5, 29, 1)$
893 : $P_{30919} = (6, 5, 29, 1)$
894 : $P_{30964} = (19, 6, 29, 1)$
895 : $P_{30968} = (23, 6, 29, 1)$
896 : $P_{30977} = (0, 7, 29, 1)$
897 : $P_{31002} = (25, 7, 29, 1)$
898 : $P_{31023} = (14, 8, 29, 1)$
899 : $P_{31038} = (29, 8, 29, 1)$
900 : $P_{31112} = (7, 11, 29, 1)$
901 : $P_{31127} = (22, 11, 29, 1)$
902 : $P_{31206} = (5, 14, 29, 1)$
903 : $P_{31219} = (18, 14, 29, 1)$
904 : $P_{31249} = (16, 15, 29, 1)$
905 : $P_{31259} = (26, 15, 29, 1)$
906 : $P_{31282} = (17, 16, 29, 1)$
907 : $P_{31283} = (18, 16, 29, 1)$
908 : $P_{31311} = (14, 17, 29, 1)$
909 : $P_{31313} = (16, 17, 29, 1)$
910 : $P_{31331} = (2, 18, 29, 1)$
911 : $P_{31359} = (30, 18, 29, 1)$
912 : $P_{31452} = (27, 21, 29, 1)$
913 : $P_{31455} = (30, 21, 29, 1)$
914 : $P_{31500} = (11, 23, 29, 1)$
915 : $P_{31506} = (17, 23, 29, 1)$
916 : $P_{31525} = (4, 24, 29, 1)$
917 : $P_{31541} = (20, 24, 29, 1)$
918 : $P_{31602} = (17, 26, 29, 1)$
919 : $P_{31615} = (30, 26, 29, 1)$
920 : $P_{31725} = (12, 30, 29, 1)$
921 : $P_{31737} = (24, 30, 29, 1)$
922 : $P_{31745} = (0, 31, 29, 1)$
923 : $P_{31754} = (9, 31, 29, 1)$
924 : $P_{31818} = (9, 1, 30, 1)$
925 : $P_{31832} = (23, 1, 30, 1)$
926 : $P_{31939} = (2, 5, 30, 1)$
927 : $P_{31948} = (11, 5, 30, 1)$
928 : $P_{31972} = (3, 6, 30, 1)$
929 : $P_{31982} = (13, 6, 30, 1)$
930 : $P_{32005} = (4, 7, 30, 1)$
931 : $P_{32021} = (20, 7, 30, 1)$
932 : $P_{32066} = (1, 9, 30, 1)$
933 : $P_{32085} = (20, 9, 30, 1)$
934 : $P_{32131} = (2, 11, 30, 1)$
935 : $P_{32143} = (14, 11, 30, 1)$
936 : $P_{32170} = (9, 12, 30, 1)$
937 : $P_{32182} = (21, 12, 30, 1)$
938 : $P_{32241} = (16, 14, 30, 1)$
939 : $P_{32246} = (21, 14, 30, 1)$
940 : $P_{32291} = (2, 16, 30, 1)$
941 : $P_{32309} = (20, 16, 30, 1)$
942 : $P_{32394} = (9, 19, 30, 1)$
943 : $P_{32409} = (24, 19, 30, 1)$

944 : $P_{32447} = (30, 20, 30, 1)$
945 : $P_{32448} = (31, 20, 30, 1)$
946 : $P_{32488} = (7, 22, 30, 1)$
947 : $P_{32512} = (31, 22, 30, 1)$
948 : $P_{32514} = (1, 23, 30, 1)$
949 : $P_{32520} = (7, 23, 30, 1)$
950 : $P_{32634} = (25, 26, 30, 1)$
951 : $P_{32638} = (29, 26, 30, 1)$
952 : $P_{32694} = (21, 28, 30, 1)$
953 : $P_{32704} = (31, 28, 30, 1)$
954 : $P_{32747} = (10, 30, 30, 1)$
955 : $P_{32762} = (25, 30, 30, 1)$
956 : $P_{32776} = (7, 31, 30, 1)$
957 : $P_{32779} = (10, 31, 30, 1)$
958 : $P_{32835} = (2, 1, 31, 1)$
959 : $P_{32862} = (29, 1, 31, 1)$
960 : $P_{32866} = (1, 2, 31, 1)$
961 : $P_{32891} = (26, 2, 31, 1)$
962 : $P_{32914} = (17, 3, 31, 1)$
963 : $P_{32918} = (21, 3, 31, 1)$
964 : $P_{32984} = (23, 5, 31, 1)$
965 : $P_{32988} = (27, 5, 31, 1)$
966 : $P_{33027} = (2, 7, 31, 1)$
967 : $P_{33046} = (21, 7, 31, 1)$
968 : $P_{33292} = (11, 15, 31, 1)$
969 : $P_{33312} = (31, 15, 31, 1)$
970 : $P_{33313} = (0, 16, 31, 1)$
971 : $P_{33319} = (6, 16, 31, 1)$
972 : $P_{33350} = (5, 17, 31, 1)$
973 : $P_{33373} = (28, 17, 31, 1)$
974 : $P_{33381} = (4, 18, 31, 1)$
975 : $P_{33402} = (25, 18, 31, 1)$
976 : $P_{33492} = (19, 21, 31, 1)$
977 : $P_{33498} = (25, 21, 31, 1)$
978 : $P_{33523} = (18, 22, 31, 1)$
979 : $P_{33533} = (28, 22, 31, 1)$
980 : $P_{33594} = (25, 24, 31, 1)$
981 : $P_{33597} = (28, 24, 31, 1)$
982 : $P_{33603} = (2, 25, 31, 1)$
983 : $P_{33625} = (24, 25, 31, 1)$
984 : $P_{33685} = (20, 27, 31, 1)$
985 : $P_{33686} = (21, 27, 31, 1)$
986 : $P_{33730} = (1, 29, 31, 1)$
987 : $P_{33737} = (8, 29, 31, 1)$
988 : $P_{33764} = (3, 30, 31, 1)$
989 : $P_{33775} = (14, 30, 31, 1)$
990 : $P_{33798} = (5, 31, 31, 1)$
991 : $P_{33816} = (23, 31, 31, 1)$

Line Intersection Graph

	0	1
0	0	1
1	1	0

Neighbor sets in the line intersection graph:
Line 0 intersects

Line	ℓ_1
in point	P_2

Line 1 intersects

Line	ℓ_0
in point	P_2

The surface has 1057 points:
Too many to print.