Rank-73801 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_1^3 + X_2^3 + X_0^2X_3 + X_0X_3^2 + X_0X_1X_2 = 0$$

(0, 1, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is -2112845755

General information

Number of lines	1
Number of points	1025
Number of singular points	0
Number of Eckardt points	0
Number of double points	0
Number of single points	33
Number of points off lines	992
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33
Type of lines on points	1^{33}, 0^{992}

Singular Points

The surface has 0 singular points:

The 1 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \left[\begin{array}{cccc} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082433} = \left[\begin{array}{cccc} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082433} = \mathbf{Pl}(0,1,0,1,0,0)_{97}$$

Rank of lines: (1082433)
Rank of points on Klein quadric: (97)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 0 Double points:
The double points on the surface are:

Single Points

The surface has 33 single points:
The single points on the surface are:

$0: P_3 = (0,0,0,1)$ lies on line ℓ_0
$1: P_{67} = (0,1,1,0)$ lies on line ℓ_0
$2: P_{2114} = (0,1,1,1)$ lies on line ℓ_0
$3: P_{3169} = (0,2,2,1)$ lies on line ℓ_0
$4: P_{4225} = (0,3,3,1)$ lies on line ℓ_0
$5: P_{5281} = (0,4,4,1)$ lies on line ℓ_0
$6: P_{6337} = (0,5,5,1)$ lies on line ℓ_0
$7: P_{7393} = (0,6,6,1)$ lies on line ℓ_0
$8: P_{8449} = (0,7,7,1)$ lies on line ℓ_0
$9: P_{9505} = (0,8,8,1)$ lies on line ℓ_0
$10: P_{10561} = (0,9,9,1)$ lies on line ℓ_0
$11: P_{11617} = (0,10,10,1)$ lies on line ℓ_0
$12: P_{12673} = (0,11,11,1)$ lies on line ℓ_0
$13: P_{13729} = (0,12,12,1)$ lies on line ℓ_0
$14: P_{14785} = (0,13,13,1)$ lies on line ℓ_0
$15: P_{15841} = (0,14,14,1)$ lies on line ℓ_0
$16: P_{16897} = (0,15,15,1)$ lies on line ℓ_0
$17: P_{17953} = (0,16,16,1)$ lies on line ℓ_0
$18: P_{19009} = (0,17,17,1)$ lies on line ℓ_0
$19: P_{20065} = (0,18,18,1)$ lies on line ℓ_0
$20: P_{21121} = (0,19,19,1)$ lies on line ℓ_0
$21: P_{22177} = (0,20,20,1)$ lies on line ℓ_0
$22: P_{23233} = (0,21,21,1)$ lies on line ℓ_0
$23: P_{24289} = (0,22,22,1)$ lies on line ℓ_0
$24: P_{25345} = (0,23,23,1)$ lies on line ℓ_0
$25: P_{26401} = (0,24,24,1)$ lies on line ℓ_0
$26: P_{27457} = (0,25,25,1)$ lies on line ℓ_0
$27: P_{28513} = (0,26,26,1)$ lies on line ℓ_0
$28: P_{29569} = (0,27,27,1)$ lies on line ℓ_0
$29: P_{30625} = (0,28,28,1)$ lies on line ℓ_0
$30: P_{31681} = (0,29,29,1)$ lies on line ℓ_0
$31: P_{32737} = (0,30,30,1)$ lies on line ℓ_0
$32: P_{33793} = (0,31,31,1)$ lies on line ℓ_0

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:

$0: P_0 = (1,0,0,0)$
$1: P_{121} = (22,2,1,0)$
$2: P_{156} = (25,3,1,0)$
$3: P_{188} = (25,4,1,0)$
$4: P_{201} = (6,5,1,0)$
$5: P_{253} = (26,6,1,0)$
$6: P_{284} = (25,7,1,0)$
$7: P_{319} = (28,8,1,0)$
$8: P_{338} = (15,9,1,0)$
$9: P_{378} = (23,10,1,0)$
$10: P_{418} = (31,11,1,0)$
$11: P_{448} = (29,12,1,0)$
$12: P_{471} = (20,13,1,0)$
$13: P_{507} = (24,14,1,0)$
$14: P_{533} = (18,15,1,0)$
$15: P_{553} = (6,16,1,0)$
$16: P_{599} = (20,17,1,0)$
$17: P_{622} = (11,18,1,0)$
$18: P_{664} = (21,19,1,0)$
$19: P_{678} = (3,20,1,0)$

$20: P_{713} = (6, 21, 1, 0)$
$21: P_{756} = (17, 22, 1, 0)$
$22: P_{800} = (29, 23, 1, 0)$
$23: P_{825} = (22, 24, 1, 0)$
$24: P_{847} = (12, 25, 1, 0)$
$25: P_{889} = (22, 26, 1, 0)$
$26: P_{928} = (29, 27, 1, 0)$
$27: P_{951} = (20, 28, 1, 0)$
$28: P_{968} = (5, 29, 1, 0)$
$29: P_{1002} = (7, 30, 1, 0)$
$30: P_{1036} = (9, 31, 1, 0)$
$31: P_{1059} = (1, 0, 0, 1)$
$32: P_{1176} = (22, 3, 0, 1)$
$33: P_{1177} = (23, 3, 0, 1)$
$34: P_{1242} = (24, 5, 0, 1)$
$35: P_{1243} = (25, 5, 0, 1)$
$36: P_{1292} = (10, 7, 0, 1)$
$37: P_{1293} = (11, 7, 0, 1)$
$38: P_{1372} = (26, 9, 0, 1)$
$39: P_{1373} = (27, 9, 0, 1)$
$40: P_{1412} = (2, 11, 0, 1)$
$41: P_{1413} = (3, 11, 0, 1)$
$42: P_{1462} = (20, 12, 0, 1)$
$43: P_{1463} = (21, 12, 0, 1)$
$44: P_{1542} = (4, 15, 0, 1)$
$45: P_{1543} = (5, 15, 0, 1)$
$46: P_{1608} = (6, 17, 0, 1)$
$47: P_{1609} = (7, 17, 0, 1)$
$48: P_{1646} = (12, 18, 0, 1)$
$49: P_{1647} = (13, 18, 0, 1)$
$50: P_{1744} = (14, 21, 0, 1)$
$51: P_{1745} = (15, 21, 0, 1)$
$52: P_{1812} = (18, 23, 0, 1)$
$53: P_{1813} = (19, 23, 0, 1)$
$54: P_{1834} = (8, 24, 0, 1)$
$55: P_{1835} = (9, 24, 0, 1)$
$56: P_{1918} = (28, 26, 0, 1)$
$57: P_{1919} = (29, 26, 0, 1)$
$58: P_{1984} = (30, 28, 0, 1)$
$59: P_{1985} = (31, 28, 0, 1)$
$60: P_{2066} = (16, 31, 0, 1)$
$61: P_{2067} = (17, 31, 0, 1)$
$62: P_{2322} = (17, 7, 1, 1)$
$63: P_{2328} = (23, 7, 1, 1)$
$64: P_{2391} = (22, 9, 1, 1)$
$65: P_{2399} = (30, 9, 1, 1)$
$66: P_{2452} = (19, 11, 1, 1)$
$67: P_{2458} = (25, 11, 1, 1)$
$68: P_{2567} = (6, 15, 1, 1)$
$69: P_{2569} = (8, 15, 1, 1)$
$70: P_{2671} = (14, 18, 1, 1)$
$71: P_{2686} = (29, 18, 1, 1)$
$72: P_{2765} = (12, 21, 1, 1)$
$73: P_{2777} = (24, 21, 1, 1)$
$74: P_{2820} = (3, 23, 1, 1)$
$75: P_{2838} = (21, 23, 1, 1)$
$76: P_{2854} = (5, 24, 1, 1)$
$77: P_{2877} = (28, 24, 1, 1)$
$78: P_{2984} = (7, 28, 1, 1)$
$79: P_{3003} = (26, 28, 1, 1)$
$80: P_{3083} = (10, 31, 1, 1)$
$81: P_{3093} = (20, 31, 1, 1)$
$82: P_{3174} = (5, 2, 2, 1)$
$83: P_{3303} = (6, 6, 2, 1)$
$84: P_{3308} = (11, 6, 2, 1)$
$85: P_{3399} = (6, 9, 2, 1)$
$86: P_{3414} = (21, 9, 2, 1)$
$87: P_{3427} = (2, 10, 2, 1)$
$88: P_{3448} = (23, 10, 2, 1)$
$89: P_{3530} = (9, 13, 2, 1)$
$90: P_{3539} = (18, 13, 2, 1)$
$91: P_{3591} = (6, 15, 2, 1)$
$92: P_{3610} = (25, 15, 2, 1)$
$93: P_{3628} = (11, 16, 2, 1)$
$94: P_{3632} = (15, 16, 2, 1)$
$95: P_{3674} = (25, 17, 2, 1)$
$96: P_{3680} = (31, 17, 2, 1)$
$97: P_{3695} = (14, 18, 2, 1)$
$98: P_{3779} = (2, 21, 2, 1)$
$99: P_{3789} = (12, 21, 2, 1)$
$100: P_{3812} = (3, 22, 2, 1)$
$101: P_{3820} = (11, 22, 2, 1)$
$102: P_{3877} = (4, 24, 2, 1)$
$103: P_{3889} = (16, 24, 2, 1)$
$104: P_{4066} = (1, 30, 2, 1)$
$105: P_{4090} = (25, 30, 2, 1)$
$106: P_{4099} = (2, 31, 2, 1)$
$107: P_{4121} = (24, 31, 2, 1)$
$108: P_{4151} = (22, 0, 3, 1)$
$109: P_{4152} = (23, 0, 3, 1)$
$110: P_{4229} = (4, 3, 3, 1)$
$111: P_{4324} = (3, 6, 3, 1)$
$112: P_{4329} = (8, 6, 3, 1)$
$113: P_{4556} = (11, 13, 3, 1)$
$114: P_{4574} = (29, 13, 3, 1)$
$115: P_{4615} = (6, 15, 3, 1)$
$116: P_{4631} = (22, 15, 3, 1)$
$117: P_{4719} = (14, 18, 3, 1)$
$118: P_{4733} = (28, 18, 3, 1)$
$119: P_{4739} = (2, 19, 3, 1)$
$120: P_{4756} = (19, 19, 3, 1)$
$121: P_{4776} = (7, 20, 3, 1)$
$122: P_{4800} = (31, 20, 3, 1)$
$123: P_{4813} = (12, 21, 3, 1)$
$124: P_{4824} = (23, 21, 3, 1)$
$125: P_{4839} = (6, 22, 3, 1)$
$126: P_{4857} = (24, 22, 3, 1)$
$127: P_{4898} = (1, 24, 3, 1)$

128 : $P_{4910} = (13, 24, 3, 1)$
129 : $P_{4935} = (6, 25, 3, 1)$
130 : $P_{4938} = (9, 25, 3, 1)$
131 : $P_{5052} = (27, 28, 3, 1)$
132 : $P_{5082} = (25, 29, 3, 1)$
133 : $P_{5083} = (26, 29, 3, 1)$
134 : $P_{5298} = (17, 4, 4, 1)$
135 : $P_{5390} = (13, 7, 4, 1)$
136 : $P_{5393} = (16, 7, 4, 1)$
137 : $P_{5471} = (30, 9, 4, 1)$
138 : $P_{5525} = (20, 11, 4, 1)$
139 : $P_{5533} = (28, 11, 4, 1)$
140 : $P_{5543} = (6, 12, 4, 1)$
141 : $P_{5555} = (18, 12, 4, 1)$
142 : $P_{5584} = (15, 13, 4, 1)$
143 : $P_{5600} = (31, 13, 4, 1)$
144 : $P_{5605} = (4, 14, 4, 1)$
145 : $P_{5625} = (24, 14, 4, 1)$
146 : $P_{5733} = (4, 18, 4, 1)$
147 : $P_{5736} = (7, 18, 4, 1)$
148 : $P_{5762} = (1, 19, 4, 1)$
149 : $P_{5767} = (6, 19, 4, 1)$
150 : $P_{5808} = (15, 20, 4, 1)$
151 : $P_{5813} = (20, 20, 4, 1)$
152 : $P_{5958} = (5, 25, 4, 1)$
153 : $P_{5968} = (15, 25, 4, 1)$
154 : $P_{6026} = (9, 27, 4, 1)$
155 : $P_{6028} = (11, 27, 4, 1)$
156 : $P_{6053} = (4, 28, 4, 1)$
157 : $P_{6075} = (26, 28, 4, 1)$
158 : $P_{6151} = (6, 31, 4, 1)$
159 : $P_{6165} = (20, 31, 4, 1)$
160 : $P_{6201} = (24, 0, 5, 1)$
161 : $P_{6202} = (25, 0, 5, 1)$
162 : $P_{6353} = (16, 5, 5, 1)$
163 : $P_{6380} = (11, 6, 5, 1)$
164 : $P_{6389} = (20, 6, 5, 1)$
165 : $P_{6402} = (1, 7, 5, 1)$
166 : $P_{6428} = (27, 7, 5, 1)$
167 : $P_{6437} = (4, 8, 5, 1)$
168 : $P_{6441} = (8, 8, 5, 1)$
169 : $P_{6488} = (23, 9, 5, 1)$
170 : $P_{6495} = (30, 9, 5, 1)$
171 : $P_{6822} = (5, 20, 5, 1)$
172 : $P_{6827} = (10, 20, 5, 1)$
173 : $P_{6884} = (3, 22, 5, 1)$
174 : $P_{6887} = (6, 22, 5, 1)$
175 : $P_{6915} = (2, 23, 5, 1)$
176 : $P_{6984} = (7, 25, 5, 1)$
177 : $P_{6997} = (20, 25, 5, 1)$
178 : $P_{7056} = (15, 27, 5, 1)$
179 : $P_{7063} = (22, 27, 5, 1)$
180 : $P_{7097} = (24, 28, 5, 1)$
181 : $P_{7099} = (26, 28, 5, 1)$
182 : $P_{7123} = (18, 29, 5, 1)$
183 : $P_{7126} = (21, 29, 5, 1)$
184 : $P_{7189} = (20, 31, 5, 1)$
185 : $P_{7194} = (25, 31, 5, 1)$
186 : $P_{7271} = (6, 2, 6, 1)$
187 : $P_{7276} = (11, 2, 6, 1)$
188 : $P_{7300} = (3, 3, 6, 1)$
189 : $P_{7305} = (8, 3, 6, 1)$
190 : $P_{7372} = (11, 5, 6, 1)$
191 : $P_{7381} = (20, 5, 6, 1)$
192 : $P_{7414} = (21, 6, 6, 1)$
193 : $P_{7436} = (11, 7, 6, 1)$
194 : $P_{7449} = (24, 7, 6, 1)$
195 : $P_{7472} = (15, 8, 6, 1)$
196 : $P_{7484} = (27, 8, 6, 1)$
197 : $P_{7497} = (8, 9, 6, 1)$
198 : $P_{7515} = (26, 9, 6, 1)$
199 : $P_{7529} = (8, 10, 6, 1)$
200 : $P_{7537} = (16, 10, 6, 1)$
201 : $P_{7602} = (17, 12, 6, 1)$
202 : $P_{7614} = (29, 12, 6, 1)$
203 : $P_{7680} = (31, 14, 6, 1)$
204 : $P_{7730} = (17, 16, 6, 1)$
205 : $P_{7744} = (31, 16, 6, 1)$
206 : $P_{7766} = (21, 17, 6, 1)$
207 : $P_{7774} = (29, 17, 6, 1)$
208 : $P_{7790} = (13, 18, 6, 1)$
209 : $P_{7792} = (15, 18, 6, 1)$
210 : $P_{7847} = (6, 20, 6, 1)$
211 : $P_{7857} = (16, 20, 6, 1)$
212 : $P_{7911} = (6, 22, 6, 1)$
213 : $P_{7933} = (28, 22, 6, 1)$
214 : $P_{7946} = (9, 23, 6, 1)$
215 : $P_{7958} = (21, 23, 6, 1)$
216 : $P_{8005} = (4, 25, 6, 1)$
217 : $P_{8026} = (25, 25, 6, 1)$
218 : $P_{8048} = (15, 26, 6, 1)$
219 : $P_{8057} = (24, 26, 6, 1)$
220 : $P_{8114} = (17, 28, 6, 1)$
221 : $P_{8115} = (18, 28, 6, 1)$
222 : $P_{8153} = (24, 29, 6, 1)$
223 : $P_{8158} = (29, 29, 6, 1)$
224 : $P_{8177} = (16, 30, 6, 1)$
225 : $P_{8192} = (31, 30, 6, 1)$
226 : $P_{8235} = (10, 0, 7, 1)$
227 : $P_{8236} = (11, 0, 7, 1)$
228 : $P_{8274} = (17, 1, 7, 1)$
229 : $P_{8280} = (23, 1, 7, 1)$
230 : $P_{8366} = (13, 4, 7, 1)$
231 : $P_{8369} = (16, 4, 7, 1)$
232 : $P_{8386} = (1, 5, 7, 1)$
233 : $P_{8412} = (27, 5, 7, 1)$
234 : $P_{8428} = (11, 6, 7, 1)$
235 : $P_{8441} = (24, 6, 7, 1)$

$236: P_{8469} = (20, 7, 7, 1)$
$237: P_{8493} = (12, 8, 7, 1)$
$238: P_{8497} = (16, 8, 7, 1)$
$239: P_{8592} = (15, 11, 7, 1)$
$240: P_{8603} = (26, 11, 7, 1)$
$241: P_{8625} = (16, 12, 7, 1)$
$242: P_{8692} = (19, 14, 7, 1)$
$243: P_{8702} = (29, 14, 7, 1)$
$244: P_{8726} = (21, 15, 7, 1)$
$245: P_{8733} = (28, 15, 7, 1)$
$246: P_{8922} = (25, 21, 7, 1)$
$247: P_{8925} = (28, 21, 7, 1)$
$248: P_{8932} = (3, 22, 7, 1)$
$249: P_{8944} = (15, 22, 7, 1)$
$250: P_{8982} = (21, 23, 7, 1)$
$251: P_{8991} = (30, 23, 7, 1)$
$252: P_{9014} = (21, 24, 7, 1)$
$253: P_{9015} = (22, 24, 7, 1)$
$254: P_{9074} = (17, 26, 7, 1)$
$255: P_{9085} = (28, 26, 7, 1)$
$256: P_{9106} = (17, 27, 7, 1)$
$257: P_{9116} = (27, 27, 7, 1)$
$258: P_{9129} = (8, 28, 7, 1)$
$259: P_{9144} = (23, 28, 7, 1)$
$260: P_{9168} = (15, 29, 7, 1)$
$261: P_{9176} = (23, 29, 7, 1)$
$262: P_{9195} = (10, 30, 7, 1)$
$263: P_{9212} = (27, 30, 7, 1)$
$264: P_{9413} = (4, 5, 8, 1)$
$265: P_{9417} = (8, 5, 8, 1)$
$266: P_{9456} = (15, 6, 8, 1)$
$267: P_{9468} = (27, 6, 8, 1)$
$268: P_{9485} = (12, 7, 8, 1)$
$269: P_{9489} = (16, 7, 8, 1)$
$270: P_{9516} = (11, 8, 8, 1)$
$271: P_{9698} = (1, 14, 8, 1)$
$272: P_{9728} = (31, 14, 8, 1)$
$273: P_{9762} = (1, 16, 8, 1)$
$274: P_{9781} = (20, 16, 8, 1)$
$275: P_{9964} = (11, 22, 8, 1)$
$276: P_{9991} = (6, 23, 8, 1)$
$277: P_{9999} = (14, 23, 8, 1)$
$278: P_{10053} = (4, 25, 8, 1)$
$279: P_{10068} = (19, 25, 8, 1)$
$280: P_{10140} = (27, 27, 8, 1)$
$281: P_{10141} = (28, 27, 8, 1)$
$282: P_{10149} = (4, 28, 8, 1)$
$283: P_{10175} = (30, 28, 8, 1)$
$284: P_{10186} = (9, 29, 8, 1)$
$285: P_{10204} = (27, 29, 8, 1)$
$286: P_{10210} = (1, 30, 8, 1)$
$287: P_{10220} = (11, 30, 8, 1)$
$288: P_{10299} = (26, 0, 9, 1)$
$289: P_{10300} = (27, 0, 9, 1)$
$290: P_{10327} = (22, 1, 9, 1)$
$291: P_{10335} = (30, 1, 9, 1)$
$292: P_{10343} = (6, 2, 9, 1)$
$293: P_{10358} = (21, 2, 9, 1)$
$294: P_{10431} = (30, 4, 9, 1)$
$295: P_{10456} = (23, 5, 9, 1)$
$296: P_{10463} = (30, 5, 9, 1)$
$297: P_{10473} = (8, 6, 9, 1)$
$298: P_{10491} = (26, 6, 9, 1)$
$299: P_{10571} = (10, 9, 9, 1)$
$300: P_{10629} = (4, 11, 9, 1)$
$301: P_{10653} = (28, 11, 9, 1)$
$302: P_{10677} = (20, 12, 9, 1)$
$303: P_{10679} = (22, 12, 9, 1)$
$304: P_{10711} = (22, 13, 9, 1)$
$305: P_{10718} = (29, 13, 9, 1)$
$306: P_{10801} = (16, 16, 9, 1)$
$307: P_{10806} = (21, 16, 9, 1)$
$308: P_{10851} = (2, 18, 9, 1)$
$309: P_{10870} = (21, 18, 9, 1)$
$310: P_{10940} = (27, 20, 9, 1)$
$311: P_{10944} = (31, 20, 9, 1)$
$312: P_{11016} = (7, 23, 9, 1)$
$313: P_{11033} = (24, 23, 9, 1)$
$314: P_{11052} = (11, 24, 9, 1)$
$315: P_{11053} = (12, 24, 9, 1)$
$316: P_{11363} = (2, 2, 10, 1)$
$317: P_{11384} = (23, 2, 10, 1)$
$318: P_{11497} = (8, 6, 10, 1)$
$319: P_{11505} = (16, 6, 10, 1)$
$320: P_{11632} = (15, 10, 10, 1)$
$321: P_{11714} = (1, 13, 10, 1)$
$322: P_{11742} = (29, 13, 10, 1)$
$323: P_{11851} = (10, 17, 10, 1)$
$324: P_{11857} = (16, 17, 10, 1)$
$325: P_{11906} = (1, 19, 10, 1)$
$326: P_{11920} = (15, 19, 10, 1)$
$327: P_{11939} = (2, 20, 10, 1)$
$328: P_{11968} = (31, 20, 10, 1)$
$329: P_{11982} = (13, 21, 10, 1)$
$330: P_{11995} = (26, 21, 10, 1)$
$331: P_{12003} = (2, 22, 10, 1)$
$332: P_{12012} = (11, 22, 10, 1)$
$333: P_{12049} = (16, 23, 10, 1)$
$334: P_{12052} = (19, 23, 10, 1)$
$335: P_{12085} = (20, 24, 10, 1)$
$336: P_{12095} = (30, 24, 10, 1)$
$337: P_{12112} = (15, 25, 10, 1)$
$338: P_{12258} = (1, 30, 10, 1)$
$339: P_{12275} = (18, 30, 10, 1)$
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746 : $P_{25992} = (7, 11, 24, 1)$
747 : $P_{26006} = (21, 11, 24, 1)$
748 : $P_{26022} = (5, 12, 24, 1)$
749 : $P_{26038} = (21, 12, 24, 1)$
750 : $P_{26054} = (5, 13, 24, 1)$
751 : $P_{26062} = (13, 13, 24, 1)$
752 : $P_{26089} = (8, 14, 24, 1)$
753 : $P_{26094} = (13, 14, 24, 1)$
754 : $P_{26181} = (4, 17, 24, 1)$
755 : $P_{26245} = (4, 19, 24, 1)$
756 : $P_{26258} = (17, 19, 24, 1)$
757 : $P_{26284} = (11, 20, 24, 1)$
758 : $P_{26301} = (28, 20, 24, 1)$
759 : $P_{26324} = (19, 21, 24, 1)$
760 : $P_{26333} = (28, 21, 24, 1)$
761 : $P_{26376} = (7, 23, 24, 1)$
762 : $P_{26398} = (29, 23, 24, 1)$
763 : $P_{26407} = (6, 24, 24, 1)$
764 : $P_{26442} = (9, 25, 24, 1)$
765 : $P_{26456} = (23, 25, 24, 1)$
766 : $P_{26536} = (7, 28, 24, 1)$
767 : $P_{26543} = (14, 28, 24, 1)$
768 : $P_{26572} = (11, 29, 24, 1)$
769 : $P_{26587} = (26, 29, 24, 1)$
770 : $P_{26759} = (6, 3, 25, 1)$
771 : $P_{26762} = (9, 3, 25, 1)$
772 : $P_{26790} = (5, 4, 25, 1)$
773 : $P_{26800} = (15, 4, 25, 1)$
774 : $P_{26824} = (7, 5, 25, 1)$
775 : $P_{26837} = (20, 5, 25, 1)$

776 : $P_{26853} = (4, 6, 25, 1)$
777 : $P_{26874} = (25, 6, 25, 1)$
778 : $P_{26917} = (4, 8, 25, 1)$
779 : $P_{26932} = (19, 8, 25, 1)$
780 : $P_{26992} = (15, 10, 25, 1)$
781 : $P_{27052} = (11, 12, 25, 1)$
782 : $P_{27064} = (23, 12, 25, 1)$
783 : $P_{27109} = (4, 14, 25, 1)$
784 : $P_{27120} = (15, 14, 25, 1)$
785 : $P_{27206} = (5, 17, 25, 1)$
786 : $P_{27221} = (20, 17, 25, 1)$
787 : $P_{27245} = (12, 18, 25, 1)$
788 : $P_{27252} = (19, 18, 25, 1)$
789 : $P_{27276} = (11, 19, 25, 1)$
790 : $P_{27278} = (13, 19, 25, 1)$
791 : $P_{27317} = (20, 20, 25, 1)$
792 : $P_{27320} = (23, 20, 25, 1)$
793 : $P_{27334} = (5, 21, 25, 1)$
794 : $P_{27360} = (31, 21, 25, 1)$
795 : $P_{27363} = (2, 22, 25, 1)$
796 : $P_{27383} = (22, 22, 25, 1)$
797 : $P_{27434} = (9, 24, 25, 1)$
798 : $P_{27448} = (23, 24, 25, 1)$
799 : $P_{27464} = (7, 25, 25, 1)$
800 : $P_{27508} = (19, 26, 25, 1)$
801 : $P_{27515} = (26, 26, 25, 1)$
802 : $P_{27530} = (9, 27, 25, 1)$
803 : $P_{27546} = (25, 27, 25, 1)$
804 : $P_{27560} = (7, 28, 25, 1)$
805 : $P_{27571} = (18, 28, 25, 1)$
806 : $P_{27606} = (21, 29, 25, 1)$
807 : $P_{27610} = (25, 29, 25, 1)$
808 : $P_{27660} = (11, 31, 25, 1)$
809 : $P_{27665} = (16, 31, 25, 1)$
810 : $P_{27709} = (28, 0, 26, 1)$
811 : $P_{27710} = (29, 0, 26, 1)$
812 : $P_{27888} = (15, 6, 26, 1)$
813 : $P_{27897} = (24, 6, 26, 1)$
814 : $P_{27922} = (17, 7, 26, 1)$
815 : $P_{27933} = (28, 7, 26, 1)$
816 : $P_{28058} = (25, 11, 26, 1)$
817 : $P_{28062} = (29, 11, 26, 1)$
818 : $P_{28202} = (9, 16, 26, 1)$
819 : $P_{28213} = (20, 16, 26, 1)$
820 : $P_{28333} = (12, 20, 26, 1)$
821 : $P_{28343} = (22, 20, 26, 1)$
822 : $P_{28366} = (13, 21, 26, 1)$
823 : $P_{28403} = (18, 22, 26, 1)$
824 : $P_{28410} = (25, 22, 26, 1)$
825 : $P_{28418} = (1, 23, 26, 1)$
826 : $P_{28433} = (16, 23, 26, 1)$
827 : $P_{28500} = (19, 25, 26, 1)$
828 : $P_{28507} = (26, 25, 26, 1)$
829 : $P_{28515} = (2, 26, 26, 1)$
830 : $P_{28632} = (23, 29, 26, 1)$
831 : $P_{28634} = (25, 29, 26, 1)$
832 : $P_{28668} = (27, 30, 26, 1)$
833 : $P_{28671} = (30, 30, 26, 1)$
834 : $P_{28683} = (10, 31, 26, 1)$
835 : $P_{28694} = (21, 31, 26, 1)$
836 : $P_{28842} = (9, 4, 27, 1)$
837 : $P_{28844} = (11, 4, 27, 1)$
838 : $P_{28880} = (15, 5, 27, 1)$
839 : $P_{28887} = (22, 5, 27, 1)$
840 : $P_{28946} = (17, 7, 27, 1)$
841 : $P_{28956} = (27, 7, 27, 1)$
842 : $P_{28988} = (27, 8, 27, 1)$
843 : $P_{28989} = (28, 8, 27, 1)$
844 : $P_{29079} = (22, 11, 27, 1)$
845 : $P_{29082} = (25, 11, 27, 1)$
846 : $P_{29154} = (1, 14, 27, 1)$
847 : $P_{29175} = (22, 14, 27, 1)$
848 : $P_{29208} = (23, 15, 27, 1)$
849 : $P_{29212} = (27, 15, 27, 1)$
850 : $P_{29235} = (18, 16, 27, 1)$
851 : $P_{29248} = (31, 16, 27, 1)$
852 : $P_{29288} = (7, 18, 27, 1)$
853 : $P_{29306} = (25, 18, 27, 1)$
854 : $P_{29443} = (2, 23, 27, 1)$
855 : $P_{29445} = (4, 23, 27, 1)$
856 : $P_{29514} = (9, 25, 27, 1)$
857 : $P_{29530} = (25, 25, 27, 1)$
858 : $P_{29572} = (3, 27, 27, 1)$
859 : $P_{29642} = (9, 29, 27, 1)$
860 : $P_{29659} = (26, 29, 27, 1)$
861 : $P_{29707} = (10, 31, 27, 1)$
862 : $P_{29759} = (30, 0, 28, 1)$
863 : $P_{29760} = (31, 0, 28, 1)$
864 : $P_{29768} = (7, 1, 28, 1)$
865 : $P_{29787} = (26, 1, 28, 1)$
866 : $P_{29852} = (27, 3, 28, 1)$
867 : $P_{29861} = (4, 4, 28, 1)$
868 : $P_{29883} = (26, 4, 28, 1)$
869 : $P_{29913} = (24, 5, 28, 1)$
870 : $P_{29915} = (26, 5, 28, 1)$
871 : $P_{29938} = (17, 6, 28, 1)$
872 : $P_{29939} = (18, 6, 28, 1)$
873 : $P_{29961} = (8, 7, 28, 1)$
874 : $P_{29976} = (23, 7, 28, 1)$
875 : $P_{29989} = (4, 8, 28, 1)$
876 : $P_{30015} = (30, 8, 28, 1)$
877 : $P_{30114} = (1, 12, 28, 1)$
878 : $P_{30117} = (4, 12, 28, 1)$
879 : $P_{30147} = (2, 13, 28, 1)$
880 : $P_{30172} = (27, 13, 28, 1)$
881 : $P_{30180} = (3, 14, 28, 1)$
882 : $P_{30204} = (27, 14, 28, 1)$
883 : $P_{30328} = (23, 18, 28, 1)$

884 : $P_{30329} = (24, 18, 28, 1)$
885 : $P_{30347} = (10, 19, 28, 1)$
886 : $P_{30362} = (25, 19, 28, 1)$
887 : $P_{30407} = (6, 21, 28, 1)$
888 : $P_{30424} = (23, 21, 28, 1)$
889 : $P_{30485} = (20, 23, 28, 1)$
890 : $P_{30489} = (24, 23, 28, 1)$
891 : $P_{30504} = (7, 24, 28, 1)$
892 : $P_{30511} = (14, 24, 28, 1)$
893 : $P_{30536} = (7, 25, 28, 1)$
894 : $P_{30547} = (18, 25, 28, 1)$
895 : $P_{30647} = (22, 28, 28, 1)$
896 : $P_{30678} = (21, 29, 28, 1)$
897 : $P_{30688} = (31, 29, 28, 1)$
898 : $P_{30726} = (5, 31, 28, 1)$
899 : $P_{30739} = (18, 31, 28, 1)$
900 : $P_{30874} = (25, 3, 29, 1)$
901 : $P_{30875} = (26, 3, 29, 1)$
902 : $P_{30931} = (18, 5, 29, 1)$
903 : $P_{30934} = (21, 5, 29, 1)$
904 : $P_{30969} = (24, 6, 29, 1)$
905 : $P_{30974} = (29, 6, 29, 1)$
906 : $P_{30992} = (15, 7, 29, 1)$
907 : $P_{31000} = (23, 7, 29, 1)$
908 : $P_{31018} = (9, 8, 29, 1)$
909 : $P_{31036} = (27, 8, 29, 1)$
910 : $P_{31107} = (2, 11, 29, 1)$
911 : $P_{31123} = (18, 11, 29, 1)$
912 : $P_{31159} = (22, 12, 29, 1)$
913 : $P_{31168} = (31, 12, 29, 1)$
914 : $P_{31205} = (4, 14, 29, 1)$
915 : $P_{31219} = (18, 14, 29, 1)$
916 : $P_{31238} = (5, 15, 29, 1)$
917 : $P_{31247} = (14, 15, 29, 1)$
918 : $P_{31294} = (29, 16, 29, 1)$
919 : $P_{31296} = (31, 16, 29, 1)$
920 : $P_{31311} = (14, 17, 29, 1)$
921 : $P_{31314} = (17, 17, 29, 1)$
922 : $P_{31370} = (9, 19, 29, 1)$
923 : $P_{31406} = (13, 20, 29, 1)$
924 : $P_{31413} = (20, 20, 29, 1)$
925 : $P_{31484} = (27, 22, 29, 1)$
926 : $P_{31486} = (29, 22, 29, 1)$
927 : $P_{31532} = (11, 24, 29, 1)$
928 : $P_{31547} = (26, 24, 29, 1)$
929 : $P_{31574} = (21, 25, 29, 1)$
930 : $P_{31578} = (25, 25, 29, 1)$
931 : $P_{31608} = (23, 26, 29, 1)$
932 : $P_{31610} = (25, 26, 29, 1)$
933 : $P_{31626} = (9, 27, 29, 1)$
934 : $P_{31643} = (26, 27, 29, 1)$
935 : $P_{31670} = (21, 28, 29, 1)$
936 : $P_{31680} = (31, 28, 29, 1)$
937 : $P_{31704} = (23, 29, 29, 1)$
938 : $P_{31727} = (14, 30, 29, 1)$
939 : $P_{31740} = (27, 30, 29, 1)$
940 : $P_{31842} = (1, 2, 30, 1)$
941 : $P_{31866} = (25, 2, 30, 1)$
942 : $P_{31985} = (16, 6, 30, 1)$
943 : $P_{32000} = (31, 6, 30, 1)$
944 : $P_{32011} = (10, 7, 30, 1)$
945 : $P_{32028} = (27, 7, 30, 1)$
946 : $P_{32034} = (1, 8, 30, 1)$
947 : $P_{32044} = (11, 8, 30, 1)$
948 : $P_{32098} = (1, 10, 30, 1)$
949 : $P_{32115} = (18, 10, 30, 1)$
950 : $P_{32296} = (7, 16, 30, 1)$
951 : $P_{32305} = (16, 16, 30, 1)$
952 : $P_{32435} = (18, 20, 30, 1)$
953 : $P_{32457} = (8, 21, 30, 1)$
954 : $P_{32471} = (22, 21, 30, 1)$
955 : $P_{32490} = (9, 22, 30, 1)$
956 : $P_{32497} = (16, 22, 30, 1)$
957 : $P_{32515} = (2, 23, 30, 1)$
958 : $P_{32518} = (5, 23, 30, 1)$
959 : $P_{32636} = (27, 26, 30, 1)$
960 : $P_{32639} = (30, 26, 30, 1)$
961 : $P_{32719} = (14, 29, 30, 1)$
962 : $P_{32732} = (27, 29, 30, 1)$
963 : $P_{32755} = (18, 30, 30, 1)$
964 : $P_{32817} = (16, 0, 31, 1)$
965 : $P_{32818} = (17, 0, 31, 1)$
966 : $P_{32843} = (10, 1, 31, 1)$
967 : $P_{32853} = (20, 1, 31, 1)$
968 : $P_{32867} = (2, 2, 31, 1)$
969 : $P_{32889} = (24, 2, 31, 1)$
970 : $P_{32935} = (6, 4, 31, 1)$
971 : $P_{32949} = (20, 4, 31, 1)$
972 : $P_{32981} = (20, 5, 31, 1)$
973 : $P_{32986} = (25, 5, 31, 1)$
974 : $P_{33239} = (22, 13, 31, 1)$
975 : $P_{33241} = (24, 13, 31, 1)$
976 : $P_{33294} = (13, 15, 31, 1)$
977 : $P_{33305} = (24, 15, 31, 1)$
978 : $P_{33384} = (7, 18, 31, 1)$
979 : $P_{33404} = (27, 18, 31, 1)$
980 : $P_{33496} = (23, 21, 31, 1)$
981 : $P_{33501} = (28, 21, 31, 1)$
982 : $P_{33522} = (17, 22, 31, 1)$
983 : $P_{33535} = (30, 22, 31, 1)$
984 : $P_{33612} = (11, 25, 31, 1)$
985 : $P_{33617} = (16, 25, 31, 1)$
986 : $P_{33643} = (10, 26, 31, 1)$
987 : $P_{33654} = (21, 26, 31, 1)$
988 : $P_{33675} = (10, 27, 31, 1)$
989 : $P_{33702} = (5, 28, 31, 1)$
990 : $P_{33715} = (18, 28, 31, 1)$
991 : $P_{33812} = (19, 31, 31, 1)$

Line Intersection Graph

Neighbor sets in the line intersection graph:
Line 0 intersects

Line
in point

The surface has 1025 points:
Too many to print.