Rank-65868 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

(1, 0, 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 -2112814042

General information

Number of lines	0
Number of points	993
Number of singular points	1
Number of Eckardt points	0
Number of double points	0
Number of single points	0
Number of points off lines	993
Number of Hesse planes	0
Number of axes	0
Type of points on lines	
Type of lines on points	0^{993}

Singular Points

The surface has 1 singular points:

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

The 0 Lines

The lines and their Pluecker coordinates are:
Rank of lines: ( )
Rank of points on Klein quadric: ( )

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 0 single points:
The single points on the surface are:

The single points on the surface are:

Points on surface but on no line

The surface has 993 points not on any line:
The points on the surface but not on lines are:

$0 : P_1 = (0, 1, 0, 0)$

$1 : P_2 = (0, 0, 1, 0)$

$2 : P_{112} = (13, 2, 1, 0)$

$3 : P_{146} = (15, 3, 1, 0)$

$4 : P_{149} = (18, 3, 1, 0)$

$5 : P_{160} = (29, 3, 1, 0)$

$6 : P_{190} = (27, 4, 1, 0)$

$7 : P_{204} = (9, 5, 1, 0)$

$8 : P_{217} = (22, 5, 1, 0)$

$9 : P_{226} = (31, 5, 1, 0)$

$10 : P_{316} = (25, 8, 1, 0)$

$11 : P_{327} = (4, 9, 1, 0)$

$12 : P_{361} = (6, 10, 1, 0)$

$13 : P_{403} = (16, 11, 1, 0)$

$14 : P_{425} = (6, 12, 1, 0)$

$15 : P_{428} = (9, 12, 1, 0)$

$16 : P_{434} = (15, 12, 1, 0)$

$17 : P_{455} = (4, 13, 1, 0)$

$18 : P_{503} = (20, 14, 1, 0)$

$19 : P_{528} = (13, 15, 1, 0)$

$20 : P_{549} = (2, 16, 1, 0)$

$21 : P_{590} = (11, 17, 1, 0)$

$22 : P_{597} = (18, 17, 1, 0)$

$23 : P_{604} = (25, 17, 1, 0)$

$24 : P_{613} = (2, 18, 1, 0)$

$25 : P_{665} = (22, 19, 1, 0)$

$26 : P_{878} = (11, 26, 1, 0)$

$27 : P_{887} = (20, 26, 1, 0)$

$28 : P_{898} = (31, 26, 1, 0)$

$29 : P_{915} = (16, 27, 1, 0)$

$30 : P_{1024} = (29, 30, 1, 0)$

$31 : P_{1054} = (27, 31, 1, 0)$

$32 : P_{2114} = (0, 1, 1, 1)$

$33 : P_{2167} = (22, 2, 1, 1)$

$34 : P_{2234} = (25, 4, 1, 1)$

$35 : P_{2302} = (29, 6, 1, 1)$

$36 : P_{2319} = (14, 7, 1, 1)$

$37 : P_{2383} = (14, 9, 1, 1)$

$38 : P_{2463} = (30, 11, 1, 1)$

$39 : P_{2517} = (20, 13, 1, 1)$

$40 : P_{2580} = (19, 15, 1, 1)$

$41 : P_{2599} = (6, 16, 1, 1)$

$42 : P_{2667} = (10, 18, 1, 1)$

$43 : P_{2743} = (22, 20, 1, 1)$

$44 : P_{2783} = (30, 21, 1, 1)$

$45 : P_{2791} = (6, 22, 1, 1)$

$46 : P_{2825} = (8, 23, 1, 1)$

$47 : P_{2859} = (10, 24, 1, 1)$

$48 : P_{2901} = (20, 25, 1, 1)$

$49 : P_{2974} = (29, 27, 1, 1)$

$50 : P_{2996} = (19, 28, 1, 1)$

$51 : P_{3034} = (25, 29, 1, 1)$

$52 : P_{3081} = (8, 31, 1, 1)$

$53 : P_{3158} = (21, 1, 2, 1)$

$54 : P_{3185} = (16, 2, 2, 1)$

$55 : P_{3247} = (14, 4, 2, 1)$

$56 : P_{3298} = (1, 6, 2, 1)$

$57 : P_{3314} = (17, 6, 2, 1)$

$58 : P_{3330} = (1, 7, 2, 1)$

$59 : P_{3339} = (10, 7, 2, 1)$

$60 : P_{3439} = (14, 10, 2, 1)$

$61 : P_{3508} = (19, 12, 2, 1)$

$62 : P_{3531} = (10, 13, 2, 1)$

$63 : P_{3539} = (18, 13, 2, 1)$

$64 : P_{3546} = (25, 13, 2, 1)$

$65 : P_{3580} = (27, 14, 2, 1)$

$66 : P_{3697} = (16, 18, 2, 1)$

$67 : P_{3758} = (13, 20, 2, 1)$

$68 : P_{3766} = (21, 20, 2, 1)$

$69 : P_{3770} = (25, 20, 2, 1)$

$70 : P_{3804} = (27, 21, 2, 1)$

$71 : P_{3858} = (17, 23, 2, 1)$

$72 : P_{3918} = (13, 25, 2, 1)$

$73 : P_{4097} = (0, 31, 2, 1)$

$74 : P_{4115} = (18, 31, 2, 1)$

$75 : P_{4116} = (19, 31, 2, 1)$

$76 : P_{4229} = (4, 3, 3, 1)$

$77 : P_{4259} = (2, 4, 3, 1)$

$78 : P_{4281} = (24, 4, 3, 1)$

$79 : P_{4284} = (27, 4, 3, 1)$

$80 : P_{4309} = (20, 5, 3, 1)$

$81 : P_{4323} = (2, 6, 3, 1)$

$82 : P_{4334} = (13, 6, 3, 1)$

$83 : P_{4335} = (14, 6, 3, 1)$

$84 : P_{4357} = (4, 7, 3, 1)$

$85 : P_{4372} = (19, 7, 3, 1)$

$86 : P_{4375} = (22, 7, 3, 1)$

$87 : P_{4399} = (14, 8, 3, 1)$

$88 : P_{4402} = (17, 8, 3, 1)$

$89 : P_{4415} = (30, 8, 3, 1)$

$90 : P_{4470} = (21, 10, 3, 1)$

$91 : P_{4494} = (13, 11, 3, 1)$

$92 : P_{4627} = (18, 15, 3, 1)$

$93 : P_{4656} = (15, 16, 3, 1)$

$94 : P_{4676} = (3, 17, 3, 1)$

$95 : P_{4693} = (20, 17, 3, 1)$

$96 : P_{4695} = (22, 17, 3, 1)$

$97 : P_{4708} = (3, 18, 3, 1)$

$98 : P_{4788} = (19, 20, 3, 1)$

$99 : P_{4801} = (0, 21, 3, 1)$

$100 : P_{4863} = (30, 22, 3, 1)$

$101 : P_{4903} = (6, 24, 3, 1)$

$102 : P_{4946} = (17, 25, 3, 1)$

$103 : P_{5049} = (24, 28, 3, 1)$

$104 : P_{5075} = (18, 29, 3, 1)$

$105 : P_{5095} = (6, 30, 3, 1)$

$106 : P_{5136} = (15, 31, 3, 1)$

$107 : P_{5142} = (21, 31, 3, 1)$

$108 : P_{5148} = (27, 31, 3, 1)$

$109 : P_{5213} = (28, 1, 4, 1)$

$110 : P_{5294} = (13, 4, 4, 1)$

$111 : P_{5372} = (27, 6, 4, 1)$

$112 : P_{5454} = (13, 9, 4, 1)$

$113 : P_{5631} = (30, 14, 4, 1)$

$114 : P_{5695} = (30, 16, 4, 1)$

$115 : P_{5729} = (0, 18, 4, 1)$

$116 : P_{5737} = (8, 18, 4, 1)$

$117 : P_{5738} = (9, 18, 4, 1)$

$118 : P_{5794} = (1, 20, 4, 1)$

$119 : P_{5805} = (12, 20, 4, 1)$

$120 : P_{5826} = (1, 21, 4, 1)$

$121 : P_{5839} = (14, 21, 4, 1)$

$122 : P_{5933} = (12, 24, 4, 1)$

$123 : P_{5993} = (8, 26, 4, 1)$

$124 : P_{6023} = (6, 27, 4, 1)$

$125 : P_{6026} = (9, 27, 4, 1)$

$126 : P_{6031} = (14, 27, 4, 1)$

$127 : P_{6051} = (2, 28, 4, 1)$

$128 : P_{6087} = (6, 29, 4, 1)$

$129 : P_{6108} = (27, 29, 4, 1)$

$130 : P_{6109} = (28, 29, 4, 1)$

$131 : P_{6115} = (2, 30, 4, 1)$

$132 : P_{6353} = (16, 5, 5, 1)$

$133 : P_{6381} = (12, 6, 5, 1)$

$134 : P_{6421} = (20, 7, 5, 1)$

$135 : P_{6470} = (5, 9, 5, 1)$

$136 : P_{6509} = (12, 10, 5, 1)$

$137 : P_{6516} = (19, 10, 5, 1)$

$138 : P_{6527} = (30, 10, 5, 1)$

$139 : P_{6566} = (5, 12, 5, 1)$

$140 : P_{6586} = (25, 12, 5, 1)$

$141 : P_{6590} = (29, 12, 5, 1)$

$142 : P_{6624} = (31, 13, 5, 1)$

$143 : P_{6653} = (28, 14, 5, 1)$

$144 : P_{6684} = (27, 15, 5, 1)$

$145 : P_{6691} = (2, 16, 5, 1)$

$146 : P_{6693} = (4, 16, 5, 1)$

$147 : P_{6696} = (7, 16, 5, 1)$

$148 : P_{6750} = (29, 17, 5, 1)$

$149 : P_{6755} = (2, 18, 5, 1)$

$150 : P_{6781} = (28, 18, 5, 1)$

$151 : P_{6784} = (31, 18, 5, 1)$

$152 : P_{6805} = (20, 19, 5, 1)$

$153 : P_{6821} = (4, 20, 5, 1)$

$154 : P_{6844} = (27, 20, 5, 1)$

$155 : P_{6847} = (30, 20, 5, 1)$

$156 : P_{6857} = (8, 21, 5, 1)$

$157 : P_{6865} = (16, 21, 5, 1)$

$158 : P_{6874} = (25, 21, 5, 1)$

$159 : P_{6890} = (9, 22, 5, 1)$

$160 : P_{6920} = (7, 23, 5, 1)$

$161 : P_{6996} = (19, 25, 5, 1)$

$162 : P_{7073} = (0, 28, 5, 1)$
$163 : P_{7113} = (8, 29, 5, 1)$
$164 : P_{7178} = (9, 31, 5, 1)$
$165 : P_{7264} = (31, 1, 6, 1)$
$166 : P_{7279} = (14, 2, 6, 1)$
$167 : P_{7283} = (18, 2, 6, 1)$
$168 : P_{7294} = (29, 2, 6, 1)$
$169 : P_{7337} = (8, 4, 6, 1)$
$170 : P_{7421} = (28, 6, 6, 1)$
$171 : P_{7521} = (0, 10, 6, 1)$
$172 : P_{7547} = (26, 10, 6, 1)$
$173 : P_{7548} = (27, 10, 6, 1)$
$174 : P_{7560} = (7, 11, 6, 1)$
$175 : P_{7572} = (19, 11, 6, 1)$
$176 : P_{7574} = (21, 11, 6, 1)$
$177 : P_{7592} = (7, 12, 6, 1)$
$178 : P_{7593} = (8, 12, 6, 1)$
$179 : P_{7599} = (14, 12, 6, 1)$
$180 : P_{7666} = (17, 14, 6, 1)$
$181 : P_{7704} = (23, 15, 6, 1)$
$182 : P_{7722} = (9, 16, 6, 1)$
$183 : P_{7731} = (18, 16, 6, 1)$
$184 : P_{7739} = (26, 16, 6, 1)$
$185 : P_{7772} = (27, 17, 6, 1)$
$186 : P_{7790} = (13, 18, 6, 1)$
$187 : P_{7884} = (11, 21, 6, 1)$
$188 : P_{7949} = (12, 23, 6, 1)$
$189 : P_{7974} = (5, 24, 6, 1)$
$190 : P_{7988} = (19, 24, 6, 1)$
$191 : P_{7992} = (23, 24, 6, 1)$
$192 : P_{8010} = (9, 25, 6, 1)$
$193 : P_{8061} = (28, 26, 6, 1)$
$194 : P_{8077} = (12, 27, 6, 1)$
$195 : P_{8134} = (5, 29, 6, 1)$
$196 : P_{8172} = (11, 30, 6, 1)$
$197 : P_{8182} = (21, 30, 6, 1)$
$198 : P_{8192} = (31, 30, 6, 1)$
$199 : P_{8206} = (13, 31, 6, 1)$
$200 : P_{8210} = (17, 31, 6, 1)$
$201 : P_{8222} = (29, 31, 6, 1)$
$202 : P_{8261} = (4, 1, 7, 1)$
$203 : P_{8274} = (17, 1, 7, 1)$
$204 : P_{8277} = (20, 1, 7, 1)$
$205 : P_{8294} = (5, 2, 7, 1)$
$206 : P_{8389} = (4, 5, 7, 1)$
$207 : P_{8454} = (5, 7, 7, 1)$
$208 : P_{8476} = (27, 7, 7, 1)$
$209 : P_{8480} = (31, 7, 7, 1)$
$210 : P_{8519} = (6, 9, 7, 1)$
$211 : P_{8606} = (29, 11, 7, 1)$
$212 : P_{8627} = (18, 12, 7, 1)$
$213 : P_{8694} = (21, 14, 7, 1)$
$214 : P_{8711} = (6, 15, 7, 1)$
$215 : P_{8754} = (17, 16, 7, 1)$

$216 : P_{8769} = (0, 17, 7, 1)$
$217 : P_{8840} = (7, 19, 7, 1)$
$218 : P_{8872} = (7, 20, 7, 1)$
$219 : P_{8917} = (20, 21, 7, 1)$
$220 : P_{8958} = (29, 22, 7, 1)$
$221 : P_{8971} = (10, 23, 7, 1)$
$222 : P_{9024} = (31, 24, 7, 1)$
$223 : P_{9110} = (21, 27, 7, 1)$
$224 : P_{9148} = (27, 28, 7, 1)$
$225 : P_{9163} = (10, 29, 7, 1)$
$226 : P_{9203} = (18, 30, 7, 1)$
$227 : P_{9311} = (30, 1, 8, 1)$
$228 : P_{9321} = (8, 2, 8, 1)$
$229 : P_{9358} = (13, 3, 8, 1)$
$230 : P_{9403} = (26, 4, 8, 1)$
$231 : P_{9412} = (3, 5, 8, 1)$
$232 : P_{9426} = (17, 5, 8, 1)$
$233 : P_{9428} = (19, 5, 8, 1)$
$234 : P_{9444} = (3, 6, 8, 1)$
$235 : P_{9462} = (21, 6, 8, 1)$
$236 : P_{9464} = (23, 6, 8, 1)$
$237 : P_{9484} = (11, 7, 8, 1)$
$238 : P_{9530} = (25, 8, 8, 1)$
$239 : P_{9577} = (8, 10, 8, 1)$
$240 : P_{9589} = (20, 10, 8, 1)$
$241 : P_{9598} = (29, 10, 8, 1)$
$242 : P_{9619} = (18, 11, 8, 1)$
$243 : P_{9634} = (1, 12, 8, 1)$
$244 : P_{9644} = (11, 12, 8, 1)$
$245 : P_{9666} = (1, 13, 8, 1)$
$246 : P_{9689} = (24, 13, 8, 1)$
$247 : P_{9710} = (13, 14, 8, 1)$
$248 : P_{9808} = (15, 17, 8, 1)$
$249 : P_{9816} = (23, 17, 8, 1)$
$250 : P_{9818} = (25, 17, 8, 1)$
$251 : P_{9878} = (21, 19, 8, 1)$
$252 : P_{9906} = (17, 20, 8, 1)$
$253 : P_{9945} = (24, 21, 8, 1)$
$254 : P_{9972} = (19, 22, 8, 1)$
$255 : P_{10014} = (29, 23, 8, 1)$
$256 : P_{10067} = (18, 25, 8, 1)$
$257 : P_{10177} = (0, 29, 8, 1)$
$258 : P_{10224} = (15, 30, 8, 1)$
$259 : P_{10229} = (20, 30, 8, 1)$
$260 : P_{10235} = (26, 30, 8, 1)$
$261 : P_{10271} = (30, 31, 8, 1)$
$262 : P_{10337} = (0, 2, 9, 1)$
$263 : P_{10343} = (6, 2, 9, 1)$
$264 : P_{10344} = (7, 2, 9, 1)$
$265 : P_{10386} = (17, 3, 9, 1)$
$266 : P_{10407} = (6, 4, 9, 1)$
$267 : P_{10440} = (7, 5, 9, 1)$
$268 : P_{10458} = (25, 5, 9, 1)$
$269 : P_{10464} = (31, 5, 9, 1)$

$270 : P_{10483} = (18, 6, 9, 1)$
$271 : P_{10518} = (21, 7, 9, 1)$
$272 : P_{10580} = (19, 9, 9, 1)$
$273 : P_{10594} = (1, 10, 9, 1)$
$274 : P_{10597} = (4, 10, 9, 1)$
$275 : P_{10626} = (1, 11, 9, 1)$
$276 : P_{10647} = (22, 11, 9, 1)$
$277 : P_{10717} = (28, 13, 9, 1)$
$278 : P_{10725} = (4, 14, 9, 1)$
$279 : P_{10845} = (28, 17, 9, 1)$
$280 : P_{10854} = (5, 18, 9, 1)$
$281 : P_{10866} = (17, 18, 9, 1)$
$282 : P_{10870} = (21, 18, 9, 1)$
$283 : P_{10893} = (12, 19, 9, 1)$
$284 : P_{10931} = (18, 20, 9, 1)$
$285 : P_{11014} = (5, 23, 9, 1)$
$286 : P_{11018} = (9, 23, 9, 1)$
$287 : P_{11022} = (13, 23, 9, 1)$
$288 : P_{11075} = (2, 25, 9, 1)$
$289 : P_{11118} = (13, 26, 9, 1)$
$290 : P_{11124} = (19, 26, 9, 1)$
$291 : P_{11136} = (31, 26, 9, 1)$
$292 : P_{11139} = (2, 27, 9, 1)$
$293 : P_{11194} = (25, 28, 9, 1)$
$294 : P_{11223} = (22, 29, 9, 1)$
$295 : P_{11242} = (9, 30, 9, 1)$
$296 : P_{11277} = (12, 31, 9, 1)$
$297 : P_{11348} = (19, 1, 10, 1)$
$298 : P_{11435} = (10, 4, 10, 1)$
$299 : P_{11484} = (27, 5, 10, 1)$
$300 : P_{11498} = (9, 6, 10, 1)$
$301 : P_{11581} = (28, 8, 10, 1)$
$302 : P_{11623} = (6, 10, 10, 1)$
$303 : P_{11687} = (6, 12, 10, 1)$
$304 : P_{11705} = (24, 12, 10, 1)$
$305 : P_{11712} = (31, 12, 10, 1)$
$306 : P_{11755} = (10, 14, 10, 1)$
$307 : P_{11767} = (22, 14, 10, 1)$
$308 : P_{11774} = (29, 14, 10, 1)$
$309 : P_{11786} = (9, 15, 10, 1)$
$310 : P_{11812} = (3, 16, 10, 1)$
$311 : P_{11846} = (5, 17, 10, 1)$
$312 : P_{11849} = (8, 17, 10, 1)$
$313 : P_{11853} = (12, 17, 10, 1)$
$314 : P_{11892} = (19, 18, 10, 1)$
$315 : P_{11908} = (3, 19, 10, 1)$
$316 : P_{11934} = (29, 19, 10, 1)$
$317 : P_{11936} = (31, 19, 10, 1)$
$318 : P_{11942} = (5, 20, 10, 1)$
$319 : P_{11961} = (24, 20, 10, 1)$
$320 : P_{11965} = (28, 20, 10, 1)$
$321 : P_{11984} = (15, 21, 10, 1)$
$322 : P_{12001} = (0, 22, 10, 1)$
$323 : P_{12087} = (22, 24, 10, 1)$

$324 : P_{12105} = (8, 25, 10, 1)$
$325 : P_{12130} = (1, 26, 10, 1)$
$326 : P_{12144} = (15, 26, 10, 1)$
$327 : P_{12162} = (1, 27, 10, 1)$
$328 : P_{12168} = (7, 27, 10, 1)$
$329 : P_{12200} = (7, 28, 10, 1)$
$330 : P_{12237} = (12, 29, 10, 1)$
$331 : P_{12284} = (27, 30, 10, 1)$
$332 : P_{12389} = (4, 2, 11, 1)$
$333 : P_{12425} = (8, 3, 11, 1)$
$334 : P_{12435} = (18, 3, 11, 1)$
$335 : P_{12444} = (27, 3, 11, 1)$
$336 : P_{12449} = (0, 4, 11, 1)$
$337 : P_{12469} = (20, 4, 11, 1)$
$338 : P_{12470} = (21, 4, 11, 1)$
$339 : P_{12493} = (12, 5, 11, 1)$
$340 : P_{12517} = (4, 6, 11, 1)$
$341 : P_{12603} = (26, 8, 11, 1)$
$342 : P_{12621} = (12, 9, 11, 1)$
$343 : P_{12626} = (17, 9, 11, 1)$
$344 : P_{12637} = (28, 9, 11, 1)$
$345 : P_{12681} = (8, 11, 11, 1)$
$346 : P_{12728} = (23, 12, 11, 1)$
$347 : P_{12770} = (1, 14, 11, 1)$
$348 : P_{12785} = (16, 14, 11, 1)$
$349 : P_{12802} = (1, 15, 11, 1)$
$350 : P_{12826} = (25, 15, 11, 1)$
$351 : P_{12853} = (20, 16, 11, 1)$
$352 : P_{12871} = (6, 17, 11, 1)$
$353 : P_{12883} = (18, 17, 11, 1)$
$354 : P_{12886} = (21, 17, 11, 1)$
$355 : P_{12923} = (26, 18, 11, 1)$
$356 : P_{12940} = (11, 19, 11, 1)$
$357 : P_{12970} = (9, 20, 11, 1)$
$358 : P_{13021} = (28, 21, 11, 1)$
$359 : P_{13050} = (25, 22, 11, 1)$
$360 : P_{13063} = (6, 23, 11, 1)$
$361 : P_{13100} = (11, 24, 11, 1)$
$362 : P_{13106} = (17, 24, 11, 1)$
$363 : P_{13116} = (27, 24, 11, 1)$
$364 : P_{13208} = (23, 27, 11, 1)$
$365 : P_{13258} = (9, 29, 11, 1)$
$366 : P_{13297} = (16, 30, 11, 1)$
$367 : P_{13418} = (9, 2, 12, 1)$
$368 : P_{13453} = (12, 3, 12, 1)$
$369 : P_{13461} = (20, 3, 12, 1)$
$370 : P_{13466} = (25, 3, 12, 1)$
$371 : P_{13552} = (15, 6, 12, 1)$
$372 : P_{13597} = (28, 7, 12, 1)$
$373 : P_{13648} = (15, 9, 12, 1)$
$374 : P_{13687} = (22, 10, 12, 1)$
$375 : P_{13706} = (9, 11, 12, 1)$
$376 : P_{13713} = (16, 11, 12, 1)$
$377 : P_{13721} = (24, 11, 12, 1)$

$378: P_{13756} = (27, 12, 12, 1)$
$379: P_{13837} = (12, 15, 12, 1)$
$380: P_{13925} = (4, 18, 12, 1)$
$381: P_{13977} = (24, 19, 12, 1)$
$382: P_{13995} = (10, 20, 12, 1)$
$383: P_{14053} = (4, 22, 12, 1)$
$384: P_{14057} = (8, 22, 12, 1)$
$385: P_{14062} = (13, 22, 12, 1)$
$386: P_{14095} = (14, 23, 12, 1)$
$387: P_{14101} = (20, 23, 12, 1)$
$388: P_{14108} = (27, 23, 12, 1)$
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$792 : P_{27220} = (19, 17, 25, 1)$
$793 : P_{27225} = (24, 17, 25, 1)$
$794 : P_{27300} = (3, 20, 25, 1)$
$795 : P_{27379} = (18, 22, 25, 1)$
$796 : P_{27396} = (3, 23, 25, 1)$
$797 : P_{27421} = (28, 23, 25, 1)$
$798 : P_{27423} = (30, 23, 25, 1)$
$799 : P_{27478} = (21, 25, 25, 1)$
$800 : P_{27531} = (10, 27, 25, 1)$
$801 : P_{27541} = (20, 27, 25, 1)$
$802 : P_{27552} = (31, 27, 25, 1)$
$803 : P_{27570} = (17, 28, 25, 1)$
$804 : P_{27665} = (16, 31, 25, 1)$
$805 : P_{27758} = (13, 2, 26, 1)$
$806 : P_{27768} = (23, 2, 26, 1)$
$807 : P_{27772} = (27, 2, 26, 1)$
$808 : P_{27783} = (6, 3, 26, 1)$
$809 : P_{27820} = (11, 4, 26, 1)$

$810 : P_{27847} = (6, 5, 26, 1)$

$811 : P_{27867} = (26, 5, 26, 1)$

$812 : P_{27870} = (29, 5, 26, 1)$

$813 : P_{27903} = (30, 6, 26, 1)$

$814 : P_{27905} = (0, 7, 26, 1)$

$815 : P_{27944} = (7, 8, 26, 1)$

$816 : P_{27985} = (16, 9, 26, 1)$

$817 : P_{28064} = (31, 11, 26, 1)$

$818 : P_{28154} = (25, 14, 26, 1)$

$819 : P_{28168} = (7, 15, 26, 1)$

$820 : P_{28172} = (11, 15, 26, 1)$

$821 : P_{28174} = (13, 15, 26, 1)$

$822 : P_{28294} = (5, 19, 26, 1)$

$823 : P_{28299} = (10, 19, 26, 1)$

$824 : P_{28303} = (14, 19, 26, 1)$

$825 : P_{28352} = (31, 20, 26, 1)$

$826 : P_{28376} = (23, 21, 26, 1)$

$827 : P_{28390} = (5, 22, 26, 1)$

$828 : P_{28442} = (25, 23, 26, 1)$

$829 : P_{28451} = (2, 24, 26, 1)$

$830 : P_{28478} = (29, 24, 26, 1)$

$831 : P_{28479} = (30, 24, 26, 1)$

$832 : P_{28491} = (10, 25, 26, 1)$

$833 : P_{28497} = (16, 25, 26, 1)$

$834 : P_{28508} = (27, 25, 26, 1)$

$835 : P_{28515} = (2, 26, 26, 1)$

$836 : P_{28623} = (14, 29, 26, 1)$

$837 : P_{28699} = (26, 31, 26, 1)$

$838 : P_{28744} = (7, 1, 27, 1)$

$839 : P_{28779} = (10, 2, 27, 1)$

$840 : P_{28904} = (7, 6, 27, 1)$

$841 : P_{28913} = (16, 6, 27, 1)$

$842 : P_{28919} = (22, 6, 27, 1)$

$843 : P_{28942} = (13, 7, 27, 1)$

$844 : P_{28971} = (10, 8, 27, 1)$

$845 : P_{29038} = (13, 10, 27, 1)$

$846 : P_{29185} = (0, 15, 27, 1)$

$847 : P_{29215} = (30, 15, 27, 1)$

$848 : P_{29216} = (31, 15, 27, 1)$

$849 : P_{29225} = (8, 16, 27, 1)$

$850 : P_{29239} = (22, 16, 27, 1)$

$851 : P_{29248} = (31, 16, 27, 1)$

$852 : P_{29279} = (30, 17, 27, 1)$

$853 : P_{29425} = (16, 22, 27, 1)$

$854 : P_{29474} = (1, 24, 27, 1)$

$855 : P_{29481} = (8, 24, 27, 1)$

$856 : P_{29506} = (1, 25, 27, 1)$

$857 : P_{29510} = (5, 25, 27, 1)$

$858 : P_{29573} = (4, 27, 27, 1)$

$859 : P_{29606} = (5, 28, 27, 1)$

$860 : P_{29701} = (4, 31, 27, 1)$

$861 : P_{29774} = (13, 1, 28, 1)$

$862 : P_{29783} = (22, 1, 28, 1)$

$863 : P_{29787} = (26, 1, 28, 1)$

$864 : P_{29836} = (11, 3, 28, 1)$

$865 : P_{29880} = (23, 4, 28, 1)$

$866 : P_{29946} = (25, 6, 28, 1)$

$867 : P_{29983} = (30, 7, 28, 1)$

$868 : P_{29996} = (11, 8, 28, 1)$

$869 : P_{30077} = (28, 10, 28, 1)$

$870 : P_{30126} = (13, 12, 28, 1)$

$871 : P_{30238} = (29, 15, 28, 1)$

$872 : P_{30253} = (12, 16, 28, 1)$

$873 : P_{30334} = (29, 18, 28, 1)$

$874 : P_{30360} = (23, 19, 28, 1)$

$875 : P_{30410} = (9, 21, 28, 1)$

$876 : P_{30461} = (28, 22, 28, 1)$

$877 : P_{30487} = (22, 23, 28, 1)$

$878 : P_{30501} = (4, 24, 28, 1)$

$879 : P_{30559} = (30, 25, 28, 1)$

$880 : P_{30561} = (0, 26, 28, 1)$

$881 : P_{30619} = (26, 27, 28, 1)$

$882 : P_{30629} = (4, 28, 28, 1)$

$883 : P_{30634} = (9, 28, 28, 1)$

$884 : P_{30637} = (12, 28, 28, 1)$

$885 : P_{30746} = (25, 31, 28, 1)$

$886 : P_{30794} = (9, 1, 29, 1)$

$887 : P_{30863} = (14, 3, 29, 1)$

$888 : P_{30868} = (19, 3, 29, 1)$

$889 : P_{30877} = (28, 3, 29, 1)$

$890 : P_{30884} = (3, 4, 29, 1)$

$891 : P_{30937} = (24, 5, 29, 1)$

$892 : P_{30980} = (3, 7, 29, 1)$

$893 : P_{31018} = (9, 8, 29, 1)$

$894 : P_{31032} = (23, 8, 29, 1)$

$895 : P_{31040} = (31, 8, 29, 1)$

$896 : P_{31043} = (2, 9, 29, 1)$

$897 : P_{31066} = (25, 9, 29, 1)$

$898 : P_{31067} = (26, 9, 29, 1)$

$899 : P_{31107} = (2, 11, 29, 1)$

$900 : P_{31183} = (14, 13, 29, 1)$

$901 : P_{31276} = (11, 16, 29, 1)$

$902 : P_{31284} = (19, 16, 29, 1)$

$903 : P_{31290} = (25, 16, 29, 1)$

$904 : P_{31336} = (7, 18, 29, 1)$

$905 : P_{31387} = (26, 19, 29, 1)$

$906 : P_{31408} = (15, 20, 29, 1)$

$907 : P_{31432} = (7, 21, 29, 1)$

$908 : P_{31435} = (10, 21, 29, 1)$

$909 : P_{31437} = (12, 21, 29, 1)$

$910 : P_{31520} = (31, 23, 29, 1)$

$911 : P_{31565} = (12, 25, 29, 1)$

$912 : P_{31589} = (4, 26, 29, 1)$

$913 : P_{31622} = (5, 27, 29, 1)$

$914 : P_{31628} = (11, 27, 29, 1)$

$915 : P_{31632} = (15, 27, 29, 1)$

$916 : P_{31705} = (24, 29, 29, 1)$

$917 : P_{31713} = (0, 30, 29, 1)$

918 : $P_{31717} = (4, 30, 29, 1)$
919 : $P_{31718} = (5, 30, 29, 1)$
920 : $P_{31755} = (10, 31, 29, 1)$
921 : $P_{31768} = (23, 31, 29, 1)$
922 : $P_{31773} = (28, 31, 29, 1)$
923 : $P_{31819} = (10, 1, 30, 1)$
924 : $P_{31882} = (9, 3, 30, 1)$
925 : $P_{31894} = (21, 3, 30, 1)$
926 : $P_{31902} = (29, 3, 30, 1)$
927 : $P_{31906} = (1, 4, 30, 1)$
928 : $P_{31933} = (28, 4, 30, 1)$
929 : $P_{31938} = (1, 5, 30, 1)$
930 : $P_{31955} = (18, 5, 30, 1)$
931 : $P_{31969} = (0, 6, 30, 1)$
932 : $P_{32037} = (4, 8, 30, 1)$
933 : $P_{32106} = (9, 10, 30, 1)$
934 : $P_{32114} = (17, 10, 30, 1)$
935 : $P_{32122} = (25, 10, 30, 1)$
936 : $P_{32139} = (10, 11, 30, 1)$
937 : $P_{32165} = (4, 12, 30, 1)$
938 : $P_{32223} = (30, 13, 30, 1)$
939 : $P_{32249} = (24, 14, 30, 1)$
940 : $P_{32368} = (15, 18, 30, 1)$
941 : $P_{32391} = (6, 19, 30, 1)$
942 : $P_{32410} = (25, 19, 30, 1)$
943 : $P_{32415} = (30, 19, 30, 1)$
944 : $P_{32431} = (14, 20, 30, 1)$
945 : $P_{32455} = (6, 21, 30, 1)$
946 : $P_{32493} = (12, 22, 30, 1)$
947 : $P_{32502} = (21, 22, 30, 1)$
948 : $P_{32505} = (24, 22, 30, 1)$
949 : $P_{32531} = (18, 23, 30, 1)$
950 : $P_{32573} = (28, 24, 30, 1)$
951 : $P_{32580} = (3, 25, 30, 1)$
952 : $P_{32612} = (3, 26, 30, 1)$
953 : $P_{32621} = (12, 26, 30, 1)$
954 : $P_{32623} = (14, 26, 30, 1)$
955 : $P_{32658} = (17, 27, 30, 1)$

956 : $P_{32720} = (15, 29, 30, 1)$
957 : $P_{32766} = (29, 30, 30, 1)$
958 : $P_{32904} = (7, 3, 31, 1)$
959 : $P_{32936} = (7, 4, 31, 1)$
960 : $P_{33013} = (20, 6, 31, 1)$
961 : $P_{33054} = (29, 7, 31, 1)$
962 : $P_{33084} = (27, 8, 31, 1)$
963 : $P_{33152} = (31, 10, 31, 1)$
964 : $P_{33158} = (5, 11, 31, 1)$
965 : $P_{33188} = (3, 12, 31, 1)$
966 : $P_{33217} = (0, 13, 31, 1)$
967 : $P_{33239} = (22, 13, 31, 1)$
968 : $P_{33240} = (23, 13, 31, 1)$
969 : $P_{33254} = (5, 14, 31, 1)$
970 : $P_{33284} = (3, 15, 31, 1)$
971 : $P_{33305} = (24, 15, 31, 1)$
972 : $P_{33307} = (26, 15, 31, 1)$
973 : $P_{33326} = (13, 16, 31, 1)$
974 : $P_{33349} = (4, 17, 31, 1)$
975 : $P_{33356} = (11, 17, 31, 1)$
976 : $P_{33359} = (14, 17, 31, 1)$
977 : $P_{33378} = (1, 18, 31, 1)$
978 : $P_{33397} = (20, 18, 31, 1)$
979 : $P_{33410} = (1, 19, 31, 1)$
980 : $P_{33436} = (27, 19, 31, 1)$
981 : $P_{33477} = (4, 21, 31, 1)$
982 : $P_{33499} = (26, 21, 31, 1)$
983 : $P_{33504} = (31, 21, 31, 1)$
984 : $P_{33520} = (15, 22, 31, 1)$
985 : $P_{33561} = (24, 23, 31, 1)$
986 : $P_{33616} = (15, 25, 31, 1)$
987 : $P_{33644} = (11, 26, 31, 1)$
988 : $P_{33656} = (23, 26, 31, 1)$
989 : $P_{33662} = (29, 26, 31, 1)$
990 : $P_{33687} = (22, 27, 31, 1)$
991 : $P_{33742} = (13, 29, 31, 1)$
992 : $P_{33807} = (14, 31, 31, 1)$

Line Intersection Graph

Neighbor sets in the line intersection graph:
The surface has 993 points:
The points on the surface are:

0 : $P_1 = (0, 1, 0, 0)$
1 : $P_2 = (0, 0, 1, 0)$
2 : $P_{112} = (13, 2, 1, 0)$
3 : $P_{146} = (15, 3, 1, 0)$
4 : $P_{149} = (18, 3, 1, 0)$
5 : $P_{160} = (29, 3, 1, 0)$

6 : $P_{190} = (27, 4, 1, 0)$
7 : $P_{204} = (9, 5, 1, 0)$
8 : $P_{217} = (22, 5, 1, 0)$
9 : $P_{226} = (31, 5, 1, 0)$
10 : $P_{316} = (25, 8, 1, 0)$
11 : $P_{327} = (4, 9, 1, 0)$

12 : $P_{361} = (6, 10, 1, 0)$
13 : $P_{403} = (16, 11, 1, 0)$
14 : $P_{425} = (6, 12, 1, 0)$
15 : $P_{428} = (9, 12, 1, 0)$
16 : $P_{434} = (15, 12, 1, 0)$
17 : $P_{455} = (4, 13, 1, 0)$

$18 : P_{503} = (20, 14, 1, 0)$
$19 : P_{528} = (13, 15, 1, 0)$
$20 : P_{549} = (2, 16, 1, 0)$
$21 : P_{590} = (11, 17, 1, 0)$
$22 : P_{597} = (18, 17, 1, 0)$
$23 : P_{604} = (25, 17, 1, 0)$
$24 : P_{613} = (2, 18, 1, 0)$
$25 : P_{665} = (22, 19, 1, 0)$
$26 : P_{878} = (11, 26, 1, 0)$
$27 : P_{887} = (20, 26, 1, 0)$
$28 : P_{898} = (31, 26, 1, 0)$
$29 : P_{915} = (16, 27, 1, 0)$
$30 : P_{1024} = (29, 30, 1, 0)$
$31 : P_{1054} = (27, 31, 1, 0)$
$32 : P_{2114} = (0, 1, 1, 1)$
$33 : P_{2167} = (22, 2, 1, 1)$
$34 : P_{2234} = (25, 4, 1, 1)$
$35 : P_{2302} = (29, 6, 1, 1)$
$36 : P_{2319} = (14, 7, 1, 1)$
$37 : P_{2383} = (14, 9, 1, 1)$
$38 : P_{2463} = (30, 11, 1, 1)$
$39 : P_{2517} = (20, 13, 1, 1)$
$40 : P_{2580} = (19, 15, 1, 1)$
$41 : P_{2599} = (6, 16, 1, 1)$
$42 : P_{2667} = (10, 18, 1, 1)$
$43 : P_{2743} = (22, 20, 1, 1)$
$44 : P_{2783} = (30, 21, 1, 1)$
$45 : P_{2791} = (6, 22, 1, 1)$
$46 : P_{2825} = (8, 23, 1, 1)$
$47 : P_{2859} = (10, 24, 1, 1)$
$48 : P_{2901} = (20, 25, 1, 1)$
$49 : P_{2974} = (29, 27, 1, 1)$
$50 : P_{2996} = (19, 28, 1, 1)$
$51 : P_{3034} = (25, 29, 1, 1)$
$52 : P_{3081} = (8, 31, 1, 1)$
$53 : P_{3158} = (21, 1, 2, 1)$
$54 : P_{3185} = (16, 2, 2, 1)$
$55 : P_{3247} = (14, 4, 2, 1)$
$56 : P_{3298} = (1, 6, 2, 1)$
$57 : P_{3314} = (17, 6, 2, 1)$
$58 : P_{3330} = (1, 7, 2, 1)$
$59 : P_{3339} = (10, 7, 2, 1)$
$60 : P_{3439} = (14, 10, 2, 1)$
$61 : P_{3508} = (19, 12, 2, 1)$
$62 : P_{3531} = (10, 13, 2, 1)$
$63 : P_{3539} = (18, 13, 2, 1)$
$64 : P_{3546} = (25, 13, 2, 1)$
$65 : P_{3580} = (27, 14, 2, 1)$
$66 : P_{3697} = (16, 18, 2, 1)$
$67 : P_{3758} = (13, 20, 2, 1)$
$68 : P_{3766} = (21, 20, 2, 1)$
$69 : P_{3770} = (25, 20, 2, 1)$
$70 : P_{3804} = (27, 21, 2, 1)$
$71 : P_{3858} = (17, 23, 2, 1)$

$72 : P_{3918} = (13, 25, 2, 1)$
$73 : P_{4097} = (0, 31, 2, 1)$
$74 : P_{4115} = (18, 31, 2, 1)$
$75 : P_{4116} = (19, 31, 2, 1)$
$76 : P_{4229} = (4, 3, 3, 1)$
$77 : P_{4259} = (2, 4, 3, 1)$
$78 : P_{4281} = (24, 4, 3, 1)$
$79 : P_{4284} = (27, 4, 3, 1)$
$80 : P_{4309} = (20, 5, 3, 1)$
$81 : P_{4323} = (2, 6, 3, 1)$
$82 : P_{4334} = (13, 6, 3, 1)$
$83 : P_{4335} = (14, 6, 3, 1)$
$84 : P_{4357} = (4, 7, 3, 1)$
$85 : P_{4372} = (19, 7, 3, 1)$
$86 : P_{4375} = (22, 7, 3, 1)$
$87 : P_{4399} = (14, 8, 3, 1)$
$88 : P_{4402} = (17, 8, 3, 1)$
$89 : P_{4415} = (30, 8, 3, 1)$
$90 : P_{4470} = (21, 10, 3, 1)$
$91 : P_{4494} = (13, 11, 3, 1)$
$92 : P_{4627} = (18, 15, 3, 1)$
$93 : P_{4656} = (15, 16, 3, 1)$
$94 : P_{4676} = (3, 17, 3, 1)$
$95 : P_{4693} = (20, 17, 3, 1)$
$96 : P_{4695} = (22, 17, 3, 1)$
$97 : P_{4708} = (3, 18, 3, 1)$
$98 : P_{4788} = (19, 20, 3, 1)$
$99 : P_{4801} = (0, 21, 3, 1)$
$100 : P_{4863} = (30, 22, 3, 1)$
$101 : P_{4903} = (6, 24, 3, 1)$
$102 : P_{4946} = (17, 25, 3, 1)$
$103 : P_{5049} = (24, 28, 3, 1)$
$104 : P_{5075} = (18, 29, 3, 1)$
$105 : P_{5095} = (6, 30, 3, 1)$
$106 : P_{5136} = (15, 31, 3, 1)$
$107 : P_{5142} = (21, 31, 3, 1)$
$108 : P_{5148} = (27, 31, 3, 1)$
$109 : P_{5213} = (28, 1, 4, 1)$
$110 : P_{5294} = (13, 4, 4, 1)$
$111 : P_{5372} = (27, 6, 4, 1)$
$112 : P_{5454} = (13, 9, 4, 1)$
$113 : P_{5631} = (30, 14, 4, 1)$
$114 : P_{5695} = (30, 16, 4, 1)$
$115 : P_{5729} = (0, 18, 4, 1)$
$116 : P_{5737} = (8, 18, 4, 1)$
$117 : P_{5738} = (9, 18, 4, 1)$
$118 : P_{5794} = (1, 20, 4, 1)$
$119 : P_{5805} = (12, 20, 4, 1)$
$120 : P_{5826} = (1, 21, 4, 1)$
$121 : P_{5839} = (14, 21, 4, 1)$
$122 : P_{5933} = (12, 24, 4, 1)$
$123 : P_{5993} = (8, 26, 4, 1)$
$124 : P_{6023} = (6, 27, 4, 1)$
$125 : P_{6026} = (9, 27, 4, 1)$

$126 : P_{6031} = (14, 27, 4, 1)$
$127 : P_{6051} = (2, 28, 4, 1)$
$128 : P_{6087} = (6, 29, 4, 1)$
$129 : P_{6108} = (27, 29, 4, 1)$
$130 : P_{6109} = (28, 29, 4, 1)$
$131 : P_{6115} = (2, 30, 4, 1)$
$132 : P_{6353} = (16, 5, 5, 1)$
$133 : P_{6381} = (12, 6, 5, 1)$
$134 : P_{6421} = (20, 7, 5, 1)$
$135 : P_{6470} = (5, 9, 5, 1)$
$136 : P_{6509} = (12, 10, 5, 1)$
$137 : P_{6516} = (19, 10, 5, 1)$
$138 : P_{6527} = (30, 10, 5, 1)$
$139 : P_{6566} = (5, 12, 5, 1)$
$140 : P_{6586} = (25, 12, 5, 1)$
$141 : P_{6590} = (29, 12, 5, 1)$
$142 : P_{6624} = (31, 13, 5, 1)$
$143 : P_{6653} = (28, 14, 5, 1)$
$144 : P_{6684} = (27, 15, 5, 1)$
$145 : P_{6691} = (2, 16, 5, 1)$
$146 : P_{6693} = (4, 16, 5, 1)$
$147 : P_{6696} = (7, 16, 5, 1)$
$148 : P_{6750} = (29, 17, 5, 1)$
$149 : P_{6755} = (2, 18, 5, 1)$
$150 : P_{6781} = (28, 18, 5, 1)$
$151 : P_{6784} = (31, 18, 5, 1)$
$152 : P_{6805} = (20, 19, 5, 1)$
$153 : P_{6821} = (4, 20, 5, 1)$
$154 : P_{6844} = (27, 20, 5, 1)$
$155 : P_{6847} = (30, 20, 5, 1)$
$156 : P_{6857} = (8, 21, 5, 1)$
$157 : P_{6865} = (16, 21, 5, 1)$
$158 : P_{6874} = (25, 21, 5, 1)$
$159 : P_{6890} = (9, 22, 5, 1)$
$160 : P_{6920} = (7, 23, 5, 1)$
$161 : P_{6996} = (19, 25, 5, 1)$
$162 : P_{7073} = (0, 28, 5, 1)$
$163 : P_{7113} = (8, 29, 5, 1)$
$164 : P_{7178} = (9, 31, 5, 1)$
$165 : P_{7264} = (31, 1, 6, 1)$
$166 : P_{7279} = (14, 2, 6, 1)$
$167 : P_{7283} = (18, 2, 6, 1)$
$168 : P_{7294} = (29, 2, 6, 1)$
$169 : P_{7337} = (8, 4, 6, 1)$
$170 : P_{7421} = (28, 6, 6, 1)$
$171 : P_{7521} = (0, 10, 6, 1)$
$172 : P_{7547} = (26, 10, 6, 1)$
$173 : P_{7548} = (27, 10, 6, 1)$
$174 : P_{7560} = (7, 11, 6, 1)$
$175 : P_{7572} = (19, 11, 6, 1)$
$176 : P_{7574} = (21, 11, 6, 1)$
$177 : P_{7592} = (7, 12, 6, 1)$
$178 : P_{7593} = (8, 12, 6, 1)$
$179 : P_{7599} = (14, 12, 6, 1)$

$180 : P_{7666} = (17, 14, 6, 1)$
$181 : P_{7704} = (23, 15, 6, 1)$
$182 : P_{7722} = (9, 16, 6, 1)$
$183 : P_{7731} = (18, 16, 6, 1)$
$184 : P_{7739} = (26, 16, 6, 1)$
$185 : P_{7772} = (27, 17, 6, 1)$
$186 : P_{7790} = (13, 18, 6, 1)$
$187 : P_{7884} = (11, 21, 6, 1)$
$188 : P_{7949} = (12, 23, 6, 1)$
$189 : P_{7974} = (5, 24, 6, 1)$
$190 : P_{7988} = (19, 24, 6, 1)$
$191 : P_{7992} = (23, 24, 6, 1)$
$192 : P_{8010} = (9, 25, 6, 1)$
$193 : P_{8061} = (28, 26, 6, 1)$
$194 : P_{8077} = (12, 27, 6, 1)$
$195 : P_{8134} = (5, 29, 6, 1)$
$196 : P_{8172} = (11, 30, 6, 1)$
$197 : P_{8182} = (21, 30, 6, 1)$
$198 : P_{8192} = (31, 30, 6, 1)$
$199 : P_{8206} = (13, 31, 6, 1)$
$200 : P_{8210} = (17, 31, 6, 1)$
$201 : P_{8222} = (29, 31, 6, 1)$
$202 : P_{8261} = (4, 1, 7, 1)$
$203 : P_{8274} = (17, 1, 7, 1)$
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