

Order $n = 3 \pmod{4}$, $n \leq 15$

Order 3, maxdet 1

minor size 1: 1^9
minor size 2: $0^3, 1^6$
minor size 3: 1^1

Order 7, maxdet 9

minor size 1: 1^{49}
minor size 2: $0^{195}, 1^{246}$
minor size 3: $0^{570}, 1^{655}$
minor size 4: $0^{438}, 1^{716}, 2^{71}$
minor size 5: $0^{78}, 1^{231}, 2^{108}, 3^{24}$
minor size 6: $0^1, 1^{12}, 2^{12}, 3^{12}, 4^6, 5^6$
minor size 7: 9^1

Order 11(a), maxdet 320

minor size 1: 1^{121}
minor size 2: $0^{1391}, 1^{1634}$
minor size 3: $0^{14224}, 1^{13001}$
minor size 4: $0^{51752}, 1^{53624}, 2^{3524}$
minor size 5: $0^{82948}, 1^{96610}, 2^{31816}, 3^{2070}$
minor size 6: $0^{63770}, 1^{63906}, 2^{62372}, 3^{12098}, 4^{10598}, 5^{700}$
minor size 7: $0^{25076}, 1^{13800}, 2^{26436}, 3^{9002}, 4^{21656}, 5^{3214}, 6^{5588}, 7^{1270}, 8^{2800}, 9^{58}$
minor size 8: $0^{4645}, 1^{904}, 2^{2608}, 3^{1008}, 4^{4768}, 5^{748}, 6^{2040}, 7^{640}, 8^{4832}, 9^{536}, 10^{1144},$
 $11^{328}, 12^{1504}, 13^{140}, 14^{456}, 15^{32}, 16^{820}, 17^{16}, 18^8, 20^{24}, 24^{24}$
minor size 9: $0^{324}, 2^{96}, 3^8, 4^{88}, 6^{48}, 8^{464}, 9^{16}, 10^{48}, 12^{144}, 13^{32}, 14^{32}, 15^{16}, 16^{620},$
 $17^{40}, 18^{48}, 19^{24}, 20^{128}, 21^{16}, 22^{80}, 23^{32}, 24^{216}, 26^{16}, 27^{32}, 28^{96}, 29^{16}, 30^{16}, 31^{16},$
 $32^{233}, 33^8, 36^8, 40^{40}, 48^{24}$
minor size 10: $0^4, 16^4, 24^8, 32^{10}, 40^{12}, 48^4, 56^{12}, 64^{31}, 80^{24}, 96^{10}, 128^2$
minor size 11: 320^1

Order 11(b), maxdet 320

minor size 1: 1^{121}
minor size 2: $0^{1389}, 1^{1636}$
minor size 3: $0^{14181}, 1^{13044}$
minor size 4: $0^{51428}, 1^{53924}, 2^{3548}$
minor size 5: $0^{81864}, 1^{97412}, 2^{32076}, 3^{2092}$
minor size 6: $0^{62260}, 1^{64528}, 2^{62992}, 3^{12276}, 4^{10656}, 5^{732}$
minor size 7: $0^{25176}, 1^{13248}, 2^{25688}, 3^{10156}, 4^{21496}, 5^{3076}, 6^{5992}, 7^{1216}, 8^{2772}, 9^{80}$
minor size 8: $0^{5093}, 1^{780}, 2^{2232}, 3^{1136}, 4^{4304}, 5^{696}, 6^{2552}, 7^{568}, 8^{4532}, 9^{784}, 10^{1056},$
 $11^{272}, 12^{1812}, 13^{120}, 14^{376}, 15^{44}, 16^{748}, 17^{16}, 18^{56}, 20^{28}, 24^{20}$
minor size 9: $0^{391}, 2^{80}, 3^8, 4^{40}, 6^{48}, 8^{420}, 9^{32}, 10^{32}, 11^8, 12^{196}, 13^{40}, 14^{32}, 15^{16},$
 $16^{520}, 17^{32}, 18^{96}, 19^{16}, 20^{112}, 21^{16}, 22^{64}, 23^{32}, 24^{344}, 26^{16}, 27^{40}, 28^{56}, 30^{16},$
 $31^{16}, 32^{198}, 36^{48}, 40^{32}, 44^{12}, 48^{16}$
minor size 10: $0^4, 8^8, 32^4, 40^{16}, 48^{24}, 64^{16}, 72^{16}, 80^{20}, 88^8, 112^4, 128^1$
minor size 11: 320^1

Order 11(c), maxdet 320

minor size 1: 1^{121}
minor size 2: $0^{1401}, 1^{1624}$
minor size 3: $0^{14425}, 1^{12800}$
minor size 4: $0^{53260}, 1^{52192}, 2^{3448}$
minor size 5: $0^{89740}, 1^{89872}, 2^{32056}, 3^{1776}$
minor size 6: $0^{80764}, 1^{46880}, 2^{63776}, 3^{10488}, 4^{11176}, 5^{360}$
minor size 7: $0^{38908}, 1^{5952}, 2^{22112}, 3^{5520}, 4^{25056}, 5^{880}, 6^{7392}, 7^{192}, 8^{2888}$
minor size 8: $0^{8569}, 2^{2016}, 4^{3568}, 6^{2640}, 8^{6296}, 10^{288}, 12^{3024}, 14^{48}, 16^{744}, 24^{24}, 32^8$
minor size 9: $0^{753}, 4^{48}, 8^{288}, 12^{96}, 16^{880}, 24^{672}, 32^{240}, 48^{48}$
minor size 10: $32^{36}, 48^{24}, 64^{36}, 96^{24}, 128^1$
minor size 11: 320^1

Order 15, maxdet 25515

minor size 1: 1^{225}
minor size 2: $0^{5187}, 1^{5838}$
minor size 3: $0^{114270}, 1^{92755}$
minor size 4: $0^{990765}, 1^{826632}, 2^{45828}$
minor size 5: $0^{4204692}, 1^{3848823}, 2^{908172}, 3^{56322}$
minor size 6: $0^{9606988}, 1^{8624883}, 2^{5363109}, 3^{899253}, 4^{512634}, 5^{43158}$
minor size 7: $0^{12857784}, 1^{8402100}, 2^{10831128}, 3^{3483909}, 4^{3935280}, 5^{622842}, 6^{927162}, 7^{129576}, 8^{201900}, 9^{17544}$
minor size 8: $0^{10566339}, 1^{3524220}, 2^{7540563}, 3^{3517449}, 4^{6412296}, 5^{1214235}, 6^{4012833}, 7^{573186}, 8^{1867998}, 9^{632043}, 10^{562122}, 11^{124350}, 12^{605022}, 13^{50292}, 14^{96624}, 15^{30645}, 16^{51789}, 17^{4140}, 18^{16527}, 20^{6000}, 24^{552}$
minor size 9: $0^{5644675}, 1^{581781}, 2^{1707150}, 3^{1325403}, 4^{2430873}, 5^{451362}, 6^{3183345}, 7^{315621}, 8^{1848072}, 9^{771699}, 10^{739389}, 11^{179127}, 12^{2566089}, 13^{130788}, 14^{366891}, 15^{368739}, 16^{522807}, 17^{66135}, 18^{757677}, 19^{48087}, 20^{234189}, 21^{126864}, 22^{83574}, 23^{23310}, 24^{314829}, 25^{16974}, 26^{36765}, 27^{45858}, 28^{41586}, 29^{5157}, 30^{52209}, 31^{4140}, 32^{18117}, 33^{5742}, 34^{5364}, 35^{990}, 36^{19179}, 38^{2718}, 39^{432}, 40^{3636}, 42^{1314}, 44^{1278}, 45^{90}$
minor size 10: $0^{2168193}, 3^{247212}, 6^{865854}, 9^{291582}, 12^{1405314}, 15^{219024}, 18^{778383}, 21^{136755}, 24^{1057401}, 27^{148566}, 30^{364725}, 33^{76599}, 36^{591081}, 39^{53838}, 42^{140526}, 45^{63702}, 48^{166275}, 51^{20448}, 54^{85050}, 57^{13806}, 60^{53955}, 63^{9561}, 66^{17712}, 69^{3132}, 72^{22887}, 75^{2088}, 78^{4788}, 81^{1380}, 84^{3897}, 87^{468}, 90^{2412}, 93^{54}, 96^{828}, 99^{18}, 102^{198}, 105^{144}, 108^{99}, 117^9, 120^{45}$
minor size 11: $0^{477963}, 9^{41607}, 18^{171729}, 27^{45033}, 36^{323064}, 45^{46620}, 54^{140436}, 63^{28413}, 72^{264597}, 81^{28803}, 90^{83952}, 99^{20403}, 108^{101364}, 117^{9684}, 126^{23016}, 135^{8178}, 144^{23199}, 153^{3114}, 162^{9510}, 171^{1125}, 180^{5901}, 189^{774}, 198^{2124}, 207^{360}, 216^{1194}, 225^{270}, 234^{387}, 243^{210}, 252^{156}, 261^{18}, 279^{18}, 315^3$
minor size 12: $0^{49410}, 27^{3477}, 54^{16200}, 81^{3852}, 108^{32706}, 135^{4653}, 162^{14823}, 189^{3570}, 216^{33591}, 243^{3966}, 270^{11286}, 297^{3411}, 324^{14247}, 351^{1467}, 378^{3990}, 405^{1422}, 432^{2115}, 459^{342}, 486^{1431}, 513^{237}, 540^{369}, 567^{189}, 594^{162}, 648^{45}, 675^9, 702^{18}, 729^{37}$
minor size 13: $0^{1830}, 81^{99}, 162^{585}, 243^{117}, 324^{1179}, 405^{162}, 486^{720}, 567^{288}, 648^{1953}, 729^{261}, 810^{603}, 891^{270}, 972^{1233}, 1053^{135}, 1134^{792}, 1215^{180}, 1296^{81}, 1377^{207}, 1458^{183}, 1539^9, 1620^{36}, 1701^{54}, 1863^{18}, 1944^{18}, 2106^9, 2187^3$
minor size 14: $1701^9, 1944^{45}, 2916^{39}, 3402^{54}, 4131^{27}, 4374^{21}, 5103^{18}, 5589^9, 6561^3$
minor size 15: 25515^1