

Hadamard orders  $n \leq 16$

Order 4, maxdet 2

minor size 1:  $1^{16}$   
minor size 2:  $0^{12}, 1^{24}$   
minor size 3:  $1^{16}$   
minor size 4:  $2^1$

Order 8, maxdet 32

minor size 1:  $1^{64}$   
minor size 2:  $0^{336}, 1^{448}$   
minor size 3:  $0^{1344}, 1^{1792}$   
minor size 4:  $0^{1428}, 1^{3136}, 2^{336}$   
minor size 5:  $0^{1344}, 2^{1792}$   
minor size 6:  $0^{336}, 4^{448}$   
minor size 7:  $8^{64}$   
minor size 8:  $32^1$

Order 12, maxdet 1458

minor size 1:  $1^{144}$   
minor size 2:  $0^{1980}, 1^{2376}$   
minor size 3:  $0^{24640}, 1^{23760}$   
minor size 4:  $0^{109890}, 1^{126720}, 2^{8415}$   
minor size 5:  $0^{205920}, 1^{318384}, 2^{95040}, 3^{7920}$   
minor size 6:  $0^{150480}, 1^{348480}, 2^{239184}, 3^{76032}, 4^{31680}, 5^{7920}$   
minor size 7:  $0^{205920}, 3^{318384}, 6^{95040}, 9^{7920}$   
minor size 8:  $0^{109890}, 9^{126720}, 18^{8415}$   
minor size 9:  $0^{24640}, 27^{23760}$   
minor size 10:  $0^{1980}, 81^{2376}$   
minor size 11:  $243^{144}$   
minor size 12:  $1458^1$

Order 16(a), maxdet 131072

minor size 1:  $1^{256}$   
minor size 2:  $0^{6720}, 1^{7680}$   
minor size 3:  $0^{170240}, 1^{143360}$   
minor size 4:  $0^{1717520}, 1^{1505280}, 2^{89600}$   
minor size 5:  $0^{9273600}, 1^{7182336}, 2^{2580480}, 3^{43008}$   
minor size 6:  $0^{37800000}, 2^{24170496}, 4^{2157568}$   
minor size 7:  $0^{87333120}, 4^{42434560}, 8^{1105920}$   
minor size 8:  $0^{114519300}, 8^{50695680}, 16^{376320}, 24^{30720}, 32^{14880}$   
minor size 9:  $0^{87333120}, 16^{42434560}, 32^{1105920}$   
minor size 10:  $0^{37800000}, 32^{24170496}, 64^{2157568}$   
minor size 11:  $0^{9273600}, 64^{7182336}, 128^{2580480}, 192^{43008}$   
minor size 12:  $0^{1717520}, 256^{1505280}, 512^{89600}$   
minor size 13:  $0^{170240}, 1024^{143360}$   
minor size 14:  $0^{6720}, 4096^{7680}$   
minor size 15:  $16384^{256}$   
minor size 16:  $131072^1$

Order 16(b), maxdet 131072

minor size 1:  $1^{256}$   
minor size 2:  $0^{6720}, 1^{7680}$   
minor size 3:  $0^{170240}, 1^{143360}$   
minor size 4:  $0^{1712912}, 1^{1511424}, 2^{88064}$   
minor size 5:  $0^{8904960}, 1^{7735296}, 2^{2359296}, 3^{79872}$   
minor size 6:  $0^{31090752}, 1^{9965568}, 2^{20066304}, 3^{1069056}, 4^{1895424}, 5^{40960}$   
minor size 7:  $0^{69896448}, 2^{26443776}, 4^{31424512}, 6^{2064384}, 8^{1044480}$   
minor size 8:  $0^{91810980}, 4^{34578432}, 8^{36311040}, 12^{2383872}, 16^{509952}, 20^{24576}, 24^{12288}, 32^{5760}$   
minor size 9:  $0^{69896448}, 8^{26443776}, 16^{31424512}, 24^{2064384}, 32^{1044480}$   
minor size 10:  $0^{31090752}, 16^{9965568}, 32^{20066304}, 48^{1069056}, 64^{1895424}, 80^{40960}$   
minor size 11:  $0^{8904960}, 64^{7735296}, 128^{2359296}, 192^{79872}$   
minor size 12:  $0^{1712912}, 256^{1511424}, 512^{88064}$   
minor size 13:  $0^{170240}, 1024^{143360}$   
minor size 14:  $0^{6720}, 4096^{7680}$   
minor size 15:  $16384^{256}$   
minor size 16:  $131072^1$

Order 16(c), maxdet 131072

minor size 1:  $1^{256}$   
minor size 2:  $0^{6720}, 1^{7680}$   
minor size 3:  $0^{170240}, 1^{143360}$   
minor size 4:  $0^{1710608}, 1^{1514496}, 2^{87296}$   
minor size 5:  $0^{8720640}, 1^{8011776}, 2^{2248704}, 3^{98304}$   
minor size 6:  $0^{27693120}, 1^{15017984}, 2^{17965056}, 3^{1652736}, 4^{1725440}, 5^{73728}$   
minor size 7:  $0^{56586496}, 1^{8978432}, 2^{32956416}, 3^{2924544}, 4^{24854528}, 5^{761856}, 6^{2727936}, 7^{147456}, 8^{903168}, 9^{32768}$   
minor size 8:  $0^{72270260}, 2^{15953408}, 4^{39981056}, 6^{5015552}, 8^{27551232}, 10^{1210368}, 12^{2924544}, 14^{221184}, 16^{441088}, 18^{33280}, 20^{24576}, 24^{7168}, 32^{3184}$   
minor size 9:  $0^{56586496}, 4^{8978432}, 8^{32956416}, 12^{2924544}, 16^{24854528}, 20^{761856}, 24^{2727936}, 28^{147456}, 32^{903168}, 36^{32768}$   
minor size 10:  $0^{27693120}, 16^{15017984}, 32^{17965056}, 48^{1652736}, 64^{1725440}, 80^{73728}$   
minor size 11:  $0^{8720640}, 64^{8011776}, 128^{2248704}, 192^{98304}$   
minor size 12:  $0^{1710608}, 256^{1514496}, 512^{87296}$   
minor size 13:  $0^{170240}, 1024^{143360}$   
minor size 14:  $0^{6720}, 4096^{7680}$   
minor size 15:  $16384^{256}$   
minor size 16:  $131072^1$

Order 16(d), maxdet 131072

minor size 1:  $1^{256}$   
minor size 2:  $0^{6720}, 1^{7680}$   
minor size 3:  $0^{170240}, 1^{143360}$   
minor size 4:  $0^{1709456}, 1^{1516032}, 2^{86912}$   
minor size 5:  $0^{8628480}, 1^{8150016}, 2^{2193408}, 3^{107520}$   
minor size 6:  $0^{25983552}, 1^{17561600}, 2^{16902144}, 3^{1956864}, 4^{1630720}, 5^{93184}$   
minor size 7:  $0^{48783616}, 1^{15712256}, 2^{34535424}, 3^{5117952}, 4^{21303296}, 5^{1333248}, 6^{2967552}, 7^{258048}, 8^{804864}, 9^{57344}$   
minor size 8:  $0^{58126460}, 1^{5349120}, 2^{22471680}, 3^{3340288}, 4^{38248448}, 5^{1512448}, 6^{7153664}, 7^{688128}, 8^{22608768}, 9^{422912}, 10^{1741824}, 11^{172032}, 12^{2895872}, 13^{86016}, 14^{344064}, 15^{43008}, 16^{314944}, 17^{26880}, 18^{57344}, 20^{25088}, 24^{5632}, 32^{2280}$   
minor size 9:  $0^{48783616}, 4^{15712256}, 8^{34535424}, 12^{5117952}, 16^{21303296}, 20^{1333248}, 24^{2967552}, 28^{258048}, 32^{804864}, 36^{57344}$   
minor size 10:  $0^{25983552}, 16^{17561600}, 32^{16902144}, 48^{1956864}, 64^{1630720}, 80^{93184}$   
minor size 11:  $0^{8628480}, 64^{8150016}, 128^{2193408}, 192^{107520}$   
minor size 12:  $0^{1709456}, 256^{1516032}, 512^{86912}$   
minor size 13:  $0^{170240}, 1024^{143360}$   
minor size 14:  $0^{6720}, 4096^{7680}$   
minor size 15:  $16384^{256}$   
minor size 16:  $131072^1$