

FreeProductsComparisonMagma

September 4, 2018

Group : $C_2 * C_3$

Searching up to index : 2500

How many normal groups are found : 527

Total Time in s : 446.5

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	446.5	416.89999999999998
FindPQuotients	247	247	397.2	155.
FindTQuotients	1	1	19.6	0.5999999999999998
FindIntersections	246	246	29.6	261.30000000000001
AddGroup	724	604	347.8	368.80000000000001

Group : $C_2 * C_4$

Searching up to index : 500

How many normal groups are found : 688

Total Time in s : 201.7

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	201.7	157.80000000000001
FindPQuotients	305	305	186.6	90.70000000000003
FindTQuotients	1	1	0.2	0.2000000000000001
FindIntersections	304	304	14.7	66.90000000000006
AddGroup	903	852	166.5	102.

Group : $C_2 * C_5$

Searching up to index : 2000

How many normal groups are found : 205

Total Time in s : 186.3

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	186.3	33.
FindPQuotients	88	88	175.0	30.199999999999999
FindTQuotients	1	1	6.7	0.2999999999999999
FindIntersections	87	87	4.4	2.399999999999999
AddGroup	344	225	124.2	6.5

Group : $C_2 * C_6$

Searching up to index : 500

How many normal groups are found : 862

Total Time in s : 370.8

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	370.8	188.90000000000001
FindPQuotients	363	363	348.5	108.40000000000001
FindTQuotients	1	1	0.7	0.20000000000000001
FindIntersections	362	362	21.5	80.299999999999997
AddGroup	1145	1077	324.2	118.

Group : $C_2 * C_7$

Searching up to index : 1000

How many normal groups are found : 63

Total Time in s : 17.8

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	17.8	6.4000000000000004
FindPQuotients	26	26	17.1	6.0999999999999996
FindTQuotients	1	1	0.6	0.20000000000000001

FindIntersections	25	25	0.0	0.10000000000000001
AddGroup	79	69	9.6	0.5

Group : $C_2 * C_8$

Searching up to index : 500

How many normal groups are found : 1187

Total Time in s : 1199.8

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	1199.8	365.
FindPQuotients	466	466	1154.7	231.69999999999999
FindTQuotients	1	1	1.0	0.20000000000000001
FindIntersections	465	465	44.1	133.09999999999999
AddGroup	1761	1688	1067.1	240.19999999999999

Group : $C_2 * C_9$

Searching up to index : 1000

How many normal groups are found : 358

Total Time in s : 169.2

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	169.2	61.39999999999999
FindPQuotients	184	184	152.4	48.29999999999997
FindTQuotients	1	1	5.5	0.2999999999999999
FindIntersections	183	183	11.2	12.9
AddGroup	490	445	125.4	23.800000000000001

Group : $C_2 * C_{10}$

Searching up to index : 500

How many normal groups are found : 469

Total Time in s : 86.6

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	86.6	87.099999999999994
FindPQuotients	227	227	78.9	49.5
FindTQuotients	1	1	0.1	0.20000000000000001
FindIntersections	226	226	7.4	37.399999999999999
AddGroup	567	551	62.9	51.899999999999999

Group : $C_2 * C_{11}$

Searching up to index : 1000

How many normal groups are found : 21

Total Time in s : 10.7

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	10.7	1.5
FindPQuotients	6	6	2.3	1.3
FindTQuotients	1	1	8.4	0.20000000000000001
FindIntersections	5	5	0.0	0.
AddGroup	28	21	1.1	0.

Group : $C_2 * C_{12}$

Searching up to index : 150

How many normal groups are found : 355

Total Time in s : 48.2

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	48.2	37.799999999999997
FindPQuotients	152	152	42.0	34.200000000000003
FindTQuotients	1	1	0.0	0.20000000000000001
FindIntersections	151	151	6.1	3.3999999999999999
AddGroup	476	473	39.9	6.