LargeIndexComparisonMagma

September 24, 2018

Group : $C_2 * C_3$
Searching up to index : 5000
How many normal groups are found : 1098
Total Time (in s) in GAP: 671.3
Total Time (in s) in MAGMA: 3125.1

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	671.3	3125.1
FindPQuotients	527	527	538.2	917.4
FindTQuotients	1	1	79.6	1.2
FindIntersections	526	526	53.4	2206.4
AddGroup	1437	1281	82.5	2960.1
MustCheckP	3436	2143	0.0	0.2
FindPModules	1713	545	538.1	917.2
SMTX_BasesMaximalSubmodules	497	492	69.4	3.6
PullBackH	784	761	96.6	15.3

Group : $C_2 * C_8$
Searching up to index : 2000
How many normal groups are found : 8092
Total Time (in s) in GAP: 10853.4
Total Time (in s) in MAGMA: 62075.1

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	10853.4	62075.1
FindPQuotients	3060	3060	9382.5	19201.8
FindTQuotients	1	1	296.3	0.5

FindIntersections	3059	3059	1174.5	42872.6
AddGroup	13207	12617	2175.0	60159.1
MustCheckP	9463	8681	0.0	0.5
FindPModules	4549	3847	9382.0	19200.8
SMTX_BasesMaximalSubmodules	2482	2479	763.3	35.0
PullBackH	9644	9227	2545.7	105.8