

LargeIndexExtendedProfile

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

Function	Count	AbsT/s	ChildT/s	AbsS/gb	ChildS/gb
IsPowerOf	3817	0.0	0.0	0.0	0.0
NextPrimeInt	3436	0.0	0.0	0.0	0.0
MustCheckP	3436	0.0	0.0	0.0	0.0
MinSubgroupSizes	3436	0.0	0.0	0.0	0.0
GroupHomomorphismByImagesNC	5039	0.5	0.0	0.0	0.0
GModuleByMats	62242	0.9	0.0	0.2	0.0
EpimorphismQuotientSystem	1662	2.1	0.3	0.4	0.0
GeneratorsOfMagmaWithInverses	4362732	2.9	0.1	0.1	0.0
NaturalHomomorphismBySubspace	784	3.1	0.0	0.1	0.0
PQuotient	3324	4.0	0.0	0.5	0.0
Index	975216	5.6	0.0	4.8	0.0
IsomorphismFpGroup	1909	8.4	0.0	0.7	0.0
Intersection	745430	26.1	1.3	6.3	0.0
ExponentSum	462587	29.5	0.0	2.3	0.0
PreImagesRepresentative	177542	29.9	0.0	1.6	0.0
LowIndexSubgroupsFpGroup	2	35.2	0.1	8.4	0.0
Core	20898	39.1	26.4	9.3	6.3
FindIntersections	526	53.4	52.8	35.9	35.9
Image	525098	54.5	0.2	13.1	0.0
SMTX_BasesMaximalSubmodules	497	69.4	0.3	14.4	0.0
IsSubgroupFp	23475	76.4	0.0	35.1	0.0

FindTQuotients	1	79.6	79.4	18.5	18.5
AddGroup	1437	82.5	80.5	40.1	39.8
PullBackH	784	96.6	19.5	14.1	1.5
Kernel	784	225.5	225.4	235.9	235.9
PreImage	34340	225.6	1.0	235.9	0.1
FindPModules	1713	538.1	530.1	286.5	285.7
FindPQuotients	527	538.2	538.2	286.6	286.6
LowIndexNormal	1	671.3	671.3	341.1	341.1

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

Function	Count	AbsT/s	ChildT/s	AbsS/gb	ChildS/gb
NextPrimeInt	9463	0.0	0.0	0.0	0.0
IsPowerOf	16025	0.0	0.0	0.0	0.0
MustCheckP	9463	0.0	0.0	0.0	0.0
MinSubgroupSizes	9463	0.3	0.0	0.0	0.0
GroupHomomorphismByImagesNC	43534	4.0	0.0	0.2	0.0
GModuleByMats	759970	14.0	0.0	3.6	0.0
EpimorphismQuotientSystem	3181	14.8	1.6	3.0	0.0
PQuotient	6362	18.9	0.0	4.9	0.0
GeneratorsOfMagmaWithInverses	34258487	23.9	1.4	0.6	0.0
Index	46407102	46.9	1.1	9.6	0.0
NaturalHomomorphismBySubspace	9644	85.1	0.0	2.4	0.0
LowIndexSubgroupsFpGroup	2	93.8	0.8	18.3	0.0
Intersection	11849870	137.2	7.4	25.0	0.3
IsomorphismFpGroup	4966	146.4	0.9	11.2	0.0
Core	153709	184.4	131.1	36.0	24.2
FindTQuotients	1	296.3	295.5	56.4	56.4
PreImagesRepresentative	2967208	564.9	1.6	32.5	0.0
ExponentSum	6149223	664.2	1.1	49.4	0.0
SMTX_BasesMaximalSubmodules	2482	763.3	4.3	150.2	0.2
Image	9818740	980.4	4.9	181.6	0.0
FindIntersections	3059	1174.5	1019.2	294.8	293.6

IsSubgroupFp	3794580	1998.9	0.0	432.0	0.0
AddGroup	13207	2175.0	2032.0	462.7	439.2
PullBackH	9644	2545.7	485.3	388.3	36.3
PreImage	213248	2853.5	14.4	495.7	2.2
Kernel	9644	2853.9	2853.0	495.7	495.6
FindPModules	4549	9382.0	9313.7	1466.9	1455.2
FindPQuotients	3060	9382.5	9382.4	1466.9	1466.9
LowIndexNormal	1	10853.4	10853.4	1818.2	1818.2