

LargeIndexExtendedProfile

September 22, 2018

Group : $C_2 * C_3$

Searching up to index : 5000

How many normal groups are found : 1098

Total Time (in s) in GAP: 670.0

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	0.4	0.0	0.0	0.0
GModuleByMats	62242	0.9	0.0	0.2	0.0
EpimorphismQuotientSystem	1662	1.9	0.2	0.4	0.0
GeneratorsOfMagmaWithInverses	4362732	2.9	0.1	0.1	0.0
NaturalHomomorphismBySubspace	784	3.7	0.0	0.1	0.0
PQuotient	3324	3.9	0.0	0.5	0.0
Index	1215737	5.6	0.0	4.8	0.0
IsomorphismFpGroup	1909	8.4	0.0	0.7	0.0
Intersection	745430	29.0	1.4	6.3	0.0
ExponentSum	462587	31.5	0.0	2.3	0.0
PreImagesRepresentative	177542	31.7	0.1	1.6	0.0
LowIndexSubgroupsFpGroup	2	34.0	0.1	8.4	0.0
Core	20898	38.8	29.3	9.3	6.3
Image	525098	48.1	0.2	13.1	0.0
FindIntersections	526	55.3	54.8	36.0	36.0
SMTX_BasesMaximalSubmodules	497	71.2	0.3	14.4	0.0
FindTQuotients	1	78.0	77.8	18.5	18.5

IsSubgroupFp	24459	78.1	0.0	35.2	0.0
AddGroup	1437	84.2	82.3	40.2	39.9
PullBackH	784	102.0	21.2	14.1	1.5
PreImage	34340	224.1	1.0	235.9	0.1
Kernel	784	224.1	224.0	235.9	235.9
FindPModules	1713	536.5	531.9	286.6	285.7
FindPQuotients	527	536.6	536.6	286.6	286.6
LowIndexNormal	1	670.0	670.0	341.2	341.2

Group : $C_2 * C_8$

Searching up to index : 2000

How many normal groups are found : 8092

Total Time (in s) in GAP: 10777.8

Function	Count	AbsT/s	ChildT/s	AbsS/gb	ChildS/gb
IsPowerOf	16025	0.0	0.0	0.0	0.0
NextPrimeInt	9463	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	4.3	0.1	0.2	0.0
GModuleByMats	759970	13.2	0.1	3.6	0.0
EpimorphismQuotientSystem	3181	13.8	1.7	3.0	0.0
PQuotient	6362	17.3	0.0	4.9	0.0
GeneratorsOfMagmaWithInverses	34258487	23.5	1.1	0.6	0.0
Index	58279205	54.2	1.3	9.6	0.0
NaturalHomomorphismBySubspace	9644	80.5	0.0	2.4	0.0
LowIndexSubgroupsFpGroup	2	94.2	0.8	18.3	0.0
Intersection	11849870	139.3	7.8	25.0	0.3
IsomorphismFpGroup	4966	144.9	0.9	11.2	0.0
Core	153709	183.4	133.2	36.0	24.2
FindTQuotients	1	296.3	295.6	56.4	56.4
PreImagesRepresentative	2967208	561.5	1.5	32.5	0.0
ExponentSum	6149223	673.3	1.0	49.4	0.0
SMTX_BasesMaximalSubmodules	2482	764.3	4.5	150.2	0.2
Image	9818740	951.4	4.4	181.6	0.0
FindIntersections	3059	1231.4	1076.7	297.5	296.3

IsSubgroupFp	3874710	2026.4	0.0	434.7	0.0
AddGroup	13207	2215.5	2066.1	465.4	441.9
PullBackH	9644	2503.9	492.0	388.3	36.3
PreImage	213248	2818.5	14.6	495.7	2.2
Kernel	9644	2819.0	2818.1	495.7	495.6
FindPModules	4549	9249.4	9180.8	1466.9	1455.2
FindPQuotients	3060	9249.9	9249.9	1466.9	1466.9
LowIndexNormal	1	10777.8	10777.8	1820.9	1820.9