# FreeProductsBaseProfile

July 16, 2018

**Group :** $C_2 * C_3$
Searching up to index : 2500
How many normal groups are found : 527
Total Time in s : 503.0
Total Magma-Time in s : 402.63

| Count | AbsT/s | ChildT/s | AbsS/mb | ChildS/mb | Function |
|:---:|:---:|:---:|:---:|:---:|:---:|
| 526 | 8.1 | 7.8 | 4146491.7 | 4118216.2 | FindIntersections |
| 1 | 13.7 | 13.6 | 3585325.6 | 3585322.9 | FindTQuotients |
| 1059 | 298.6 | 91.8 | 244671050.8 | 72281791.2 | AddGroup |
| 527 | 481.2 | 472.9 | 332516963.4 | 330233536.3 | FindPQuotients |
| 1 | 503.0 | 503.0 | 340248780.9 | 340248780.8 | LowIndexNormal |

**Group :** $C_2 * C_{12}$
Searching up to index : 150
How many normal groups are found : 355
Total Time in s : 57.3
Total Magma-Time in s : 270.79

| Count | AbsT/s | ChildT/s | AbsS/mb | ChildS/mb | Function |
|:---:|:---:|:---:|:---:|:---:|:---:|
| 1 | 0.0 | 0.0 | 8506.5 | 8506.1 | FindTQuotients |
| 354 | 4.2 | 4.0 | 1150617.2 | 1127010.4 | FindIntersections |
| 748 | 39.1 | 17.4 | 13742254.6 | 6206271.8 | AddGroup |
| 355 | 53.0 | 50.8 | 17273965.8 | 16792550.2 | FindPQuotients |
| 1 | 57.3 | 57.3 | 18433089.7 | 18433089.6 | LowIndexNormal |

**Group :** $C_2 * C_4$

Searching up to index : 500

How many normal groups are found : 688

Total Time in s : 240.6

Total Magma-Time in s : 470.73

| Count | AbsT/s | ChildT/s | AbsS/mb | ChildS/mb | Function |
|-------|--------|----------|---------|-----------|----------|
| 1 | 0.1 | 0.1 | 43142.1 | 43140.9 | FindTQuotients |
| 687 | 9.5 | 8.8 | 3439064.7 | 3348229.3 | FindIntersections |
| 1522 | 138.0 | 49.5 | 78267831.8 | 29501723.0 | AddGroup |
| 688 | 230.8 | 225.5 | 114979643.9 | 113493607.7 | FindPQuotients |
| 1 | 240.6 | 240.6 | 118461851.0 | 118461850.8 | LowIndexNormal |

**Group :** $C_2 * C_5$

Searching up to index : 2000

How many normal groups are found : 205

Total Time in s : 515.3

Total Magma-Time in s : 266.68

| Count | AbsT/s | ChildT/s | AbsS/mb | ChildS/mb | Function |
|-------|--------|----------|---------|-----------|----------|
| 204 | 0.2 | 0.2 | 72517.6 | 69894.0 | FindIntersections |
| 1 | 5.1 | 5.1 | 1260415.7 | 1260413.2 | FindTQuotients |
| 369 | 96.9 | 42.0 | 66930833.1 | 28817338.2 | AddGroup |
| 205 | 509.9 | 443.1 | 211439475.3 | 183812858.3 | FindPQuotients |
| 1 | 515.3 | 515.3 | 212772408.9 | 212772408.7 | LowIndexNormal |

**Group :** $C_2 * C_6$

Searching up to index : 500

How many normal groups are found : 862

Total Time in s : 381.4

Total Magma-Time in s : 917.5

| Count | AbsT/s | ChildT/s | AbsS/mb | ChildS/mb | Function |
|---|---|---|---|---|---|
| 1 | 0.7 | 0.7 | 128805.4 | 128803.9 | FindTQuotients |
| 861 | 17.8 | 16.6 | 6736001.5 | 6607626.8 | FindIntersections |
| 1896 | 260.2 | 101.5 | 136911966.1 | 58949190.0 | AddGroup |
| 862 | 362.8 | 352.0 | 174318408.1 | 170885305.6 | FindPQuotients |
| 1 | 381.4 | 381.4 | 181183215.2 | 181183215.1 | LowIndexNormal |

**Group :** $C_2 * C_7$

Searching up to index : 1000

How many normal groups are found : 63

Total Time in s : 19.7

Total Magma-Time in s : 46.2

| Count | AbsT/s | ChildT/s | AbsS/mb | ChildS/mb | Function |
|---|---|---|---|---|---|
| 62 | 0.0 | 0.0 | 5532.8 | 5321.1 | FindIntersections |
| 1 | 0.4 | 0.4 | 116406.8 | 116406.2 | FindTQuotients |
| 83 | 6.6 | 2.0 | 4508554.5 | 1596113.1 | AddGroup |
| 63 | 19.2 | 17.4 | 9666874.2 | 8965512.3 | FindPQuotients |
| 1 | 19.7 | 19.7 | 9788814.1 | 9788814.0 | LowIndexNormal |

**Group :** $C_2 * C_8$

Searching up to index : 500

How many normal groups are found : 1187

Total Time in s : 1142.5

Total Magma-Time in s : 2765.47

| Count | AbsT/s | ChildT/s | AbsS/mb | ChildS/mb | Function |
|---|---|---|---|---|---|
| 1 | 0.6 | 0.6 | 148915.1 | 148913.3 | FindTQuotients |
| 1186 | 47.3 | 44.8 | 19500588.8 | 19134056.6 | FindIntersections |
| 2779 | 786.0 | 335.2 | 390075783.0 | 180771498.0 | AddGroup |
| 1187 | 1094.4 | 1070.2 | 508278038.1 | 499699324.9 | FindPQuotients |
| 1 | 1142.5 | 1142.5 | 527927542.2 | 527927542.1 | LowIndexNormal |

**Group :** $C_2 * C_{10}$

Searching up to index : 500

How many normal groups are found : 469

Total Time in s : 115.0

Total Magma-Time in s : 243.42

| Count | AbsT/s | ChildT/s | AbsS/mb | ChildS/mb | Function |
|---|---|---|---|---|---|
| 1 | 0.1 | 0.1 | 34511.3 | 34510.7 | FindTQuotients |
| 468 | 2.3 | 2.0 | 763099.8 | 733817.2 | FindIntersections |
| 944 | 51.4 | 15.9 | 31395225.5 | 10558815.9 | AddGroup |
| 469 | 112.5 | 106.2 | 56866766.1 | 54623747.8 | FindPQuotients |
| 1 | 115.0 | 115.0 | 57664377.4 | 57664377.3 | LowIndexNormal |

**Group :** $C_2 * C_{11}$

Searching up to index : 1000

How many normal groups are found : 21

Total Time in s : 10.9

Total Magma-Time in s : 58.27

| Count | AbsT/s | ChildT/s | AbsS/mb | ChildS/mb | Function |
|---|---|---|---|---|---|
| 20 | 0.0 | 0.0 | 36.4 | 17.5 | FindIntersections |
| 29 | 1.0 | 0.5 | 631877.7 | 274208.1 | AddGroup |
| 21 | 3.5 | 2.7 | 1519531.1 | 1244036.1 | FindPQuotients |
| 1 | 7.4 | 7.3 | 1564131.4 | 1564130.9 | FindTQuotients |
| 1 | 10.9 | 10.9 | 3083699.1 | 3083699.0 | LowIndexNormal |