| Tool Name | Execution Time (s) | Total Energy (J) | CPU Energy (J) | Memory Energy (J) | Energy/Time (J/s) |
|----------------------------|--------------------|------------------|----------------|-------------------|-------------------|
| CMake | 1 (2.0) | 2 (3.2) | 1 (3.5) | 1 (2.0) | 1 (1.0) |
| qmake | 3 (2.3) | 7 (6.0) | 7 (6.7) | 4 (2.7) | 1 (1.0) |
| Qbs | 4 (2.5) | 9 (7.5) | 9 (8.5) | 6 (3.0) | 1 (1.0) |
| NetBeans IDE | 4 (2.5) | 5 (5.0) | 4 (5.5) | 3 (2.5) | 1 (1.0) |
| Code::Blocks | 6 (3.0) | 10 (9.0) | 10 (10.0) | 6 (3.0) | 1 (1.0) |
| CLion | 1 (2.0) | 2 (3.2) | 1 (3.5) | 1 (2.0) | 1 (1.0) |
| CodeLite | 4 (2.5) | 5 (5.0) | 4 (5.5) | 3 (2.5) | 1 (1.0) |
| Eclipse CDT | 1 (2.0) | 5 (5.0) | 6 (6.0) | 1 (2.0) | 1 (1.0) |
| KDevelop | 1 (2.0) | 2 (3.2) | 1 (3.5) | 1 (2.0) | 1 (1.0) |
| Geany | 6 (3.0) | 10 (9.0) | 11 (11.0) | 6 (3.0) | 1 (1.0) |
| Anjuta DevStudio | 5 (2.8) | 8 (7.0) | 8 (8.2) | 5 (2.8) | 1 (1.0) |
| Qt Creator | 2 (2.2) | 6 (5.1) | 5 (5.7) | 2 (2.4) | 1 (1.0) |
| DialogBlocks | 4 (2.5) | 5 (5.0) | 6 (6.0) | 3 (2.5) | 1 (1.0) |
| ZinjaI | 4 (2.5) | 3 (4.0) | 2 (4.0) | 3 (2.5) | 1 (1.0) |
| GPS | 1 (2.0) | 4 (4.5) | 3 (4.8) | 1 (2.0) | 1 (1.0) |
| Oracle Developer Studio | 4 (2.5) | 5 (5.0) | 4 (5.5) | 3 (2.5) | 1 (1.0) |
| Sphere Engine | 1 (2.0) | 1 (3.0) | 2 (4.0) | 1 (2.0) | 1 (1.0) |
| AWS Cloud9 | 6 (3.0) | 9 (7.5) | 9 (8.5) | 6 (3.0) | 1 (1.0) |

Table 1: N-body tools ranked with o decimal points

| Tool Name | Execution Time (s) | Total Energy (J) | CPU Energy (J) | Memory Energy (J) | Energy/Time (J/s) |
|------------------|--------------------|------------------|----------------|-------------------|-------------------|
| CMake | 2 (3.0) | 1 (6.5) | 1 (6.5) | 2 (2.5) | 4 (4.0) |
| qmake | 7 (4.3) | 9 (14.7) | 9 (14.7) | 6 (4.0) | 7 (5.3) |
| Qbs | 8 (5.0) | 11 (16.5) | 11 (16.5) | 8 (4.5) | 6 (5.0) |
| NetBeans IDE | 5 (4.0) | 6 (11.0) | 6 (11.0) | 5 (3.5) | 6 (5.0) |
| Code::Blocks | 8 (5.0) | 13 (20.0) | 13 (20.0) | 9 (5.0) | 3 (3.0) |
| CLion | 2 (3.0) | 1 (6.5) | 1 (6.5) | 2 (2.5) | 4 (4.0) |
| CodeLite | 3 (3.5) | 5 (10.5) | 5 (10.5) | 5 (3.5) | 4 (4.0) |
| Eclipse CDT | 2 (3.0) | 8 (11.5) | 8 (11.5) | 3 (3.0) | 2 (2.5) |
| KDevelop | 2 (3.0) | 1 (6.5) | 1 (6.5) | 2 (2.5) | 4 (4.0) |
| Geany | 8 (5.0) | 14 (21.0) | 14 (21.0) | 9 (5.0) | 3 (3.0) |
| Anjuta DevStudio | 6 (4.2) | 10 (15.8) | 10 (15.8) | 7 (4.2) | 4 (4.0) |
| Qt Creator | 4 (3.9) | 7 (11.4) | 7 (11.4) | 4 (3.4) | 5 (4.7) |
| DialogBlocks | 3 (3.5) | 6 (11.0) | 6 (11.0) | 5 (3.5) | 8 (5.5) |
| ZinjaI | 5 (4.0) | 3 (8.5) | 3 (8.5) | 5 (3.5) | 3 (3.0) |
| GPS | 2 (3.0) | 4 (9.8) | 4 (9.8) | 3 (3.0) | 4 (4.0) |
| Oracle | = () | 6 () | 6 () | - () | 6 () |
| Developer Studio | 5 (4.0) | 6 (11.0) | 6 (11.0) | 5 (3.5) | 6 (5.0) |
| Sphere Engine | 1 (2.0) | 2 (8.0) | 2 (8.0) | 1 (2.0) | 9 (8.0) |
| AWS Cloud9 | 8 (5.0) | 12 (17.0) | 12 (17.0) | 9 (5.0) | 1 (2.0) |

Table 2: N-body tools ranked with 1 decimal points

| Tool Name | Execution Time (s) | Total Energy (J) | CPU Energy (J) | Memory Energy (J) | Energy/Time (J/s) |
|------------------|--------------------|------------------|----------------|-------------------|-------------------|
| CMake | 3 (5.5) | 1 (8.0) | 1 (8.0) | 4 (4.2) | 6 (10.2) |
| qmake | 8 (8.0) | 7 (16.7) | 7 (16.7) | 9 (7.0) | 13 (16.7) |
| Qbs | 9 (10.0) | 9 (18.5) | 9 (18.5) | 10 (9.0) | 12 (15.5) |
| NetBeans IDE | 8 (8.0) | 5 (13.0) | 5 (13.0) | 8 (6.5) | 9 (13.0) |
| Code::Blocks | 12 (12.0) | 11 (22.0) | 11 (22.0) | 12 (12.0) | 3 (8.0) |
| CLion | 3 (5.5) | 1 (8.0) | 1 (8.0) | 4 (4.2) | 6 (10.2) |
| CodeLite | 3 (5.5) | 4 (12.5) | 4 (12.5) | 3 (4.0) | 8 (11.5) |
| Eclipse CDT | 2 (4.5) | 5 (13.0) | 5 (13.0) | 2 (3.5) | 2 (7.5) |
| KDevelop | 3 (5.5) | 1 (8.0) | 1 (8.0) | 4 (4.2) | 6 (10.2) |
| Geany | 11 (11.0) | 12 (23.0) | 12 (23.0) | 10 (9.0) | 5 (10.0) |
| Anjuta DevStudio | 6 (7.2) | 8 (17.8) | 8 (17.8) | 8 (6.5) | 8 (11.5) |
| Qt Creator | 7 (7.3) | 6 (13.2) | 6 (13.2) | 7 (6.2) | 10 (13.6) |
| DialogBlocks | 5 (6.5) | 5 (13.0) | 5 (13.0) | 5 (5.0) | 11 (14.0) |
| ZinjaI | 8 (8.0) | 2 (10.0) | 2 (10.0) | 6 (6.0) | 4 (8.5) |
| GPS | 4 (5.8) | 3 (11.2) | 3 (11.2) | 5 (5.0) | 7 (11.2) |
| Oracle | 8 (8.0) | 5 (13.0) 5 | 5 (13.0) | 8 (6.5) | 9 (13.0) |
| Developer Studio | | | | | |
| Sphere Engine | 1 (3.0) | 2 (10.0) | 2 (10.0) | 1 (2.0) | 14 (22.0) |
| AWS Cloud9 | 10 (10.5) | 10 (19.0) | 10 (19.0) | 11 (9.5) | 1 (5.5) |

Table 3: N-body tools ranked with 2 decimal points

| Tool Name | Execution Time (s) | Total Energy (J) | CPU Energy (J) | Memory Energy (J) | Energy/Time (J/s) |
|----------------------------|--------------------|------------------|----------------|-------------------|-------------------|
| CMake | 3 (10.2) | 1 (8.0) | 1 (8.0) | 3 (9.2) | 5 (12.0) |
| qmake | 9 (15.3) | 7 (16.7) | 7 (16.7) | 9 (14.3) | 13 (19.3) |
| Qbs | 10 (18.0) | 9 (18.5) | 9 (18.5) | 10 (17.0) | 12 (18.0) |
| NetBeans IDE | 8 (14.0) | 5 (13.0) | 5 (13.0) | 6 (12.5) | 9 (15.0) |
| Code::Blocks | 13 (21.0) | 11 (22.0) | 11 (22.0) | 13 (22.0) | 3 (9.0) |
| CLion | 3 (10.2) | 1 (8.0) | 1 (8.0) | 3 (9.2) | 5 (12.0) |
| CodeLite | 5 (12.0) | 4 (12.5) | 4 (12.5) | 5 (11.0) | 7 (13.0) |
| Eclipse CDT | 2 (9.0) | 5 (13.0) | 5 (13.0) | 2 (8.5) | 2 (8.5) |
| KDevelop | 3 (10.2) | 1 (8.0) | 1 (8.0) | 3 (9.2) | 5 (12.0) |
| Geany | 12 (20.0) | 12 (23.0) | 12 (23.0) | 11 (19.0) | 5 (12.0) |
| Anjuta DevStudio | 7 (13.8) | 8 (17.8) | 8 (17.8) | 8 (13.2) | 8 (13.5) |
| Qt Creator | 6 (13.7) | 6 (13.2) | 6 (13.2) | 7 (12.7) | 10 (15.8) |
| DialogBlocks | 4 (11.5) | 5 (13.0) | 5 (13.0) | 5 (11.0) | 11 (16.0) |
| ZinjaI | 8 (14.0) | 2 (10.0) | 2 (10.0) | 6 (12.5) | 4 (10.0) |
| GPS | 3 (10.2) | 3 (11.2) | 3 (11.2) | 4 (10.0) | 6 (12.8) |
| Oracle Developer Studio | 8 (14.0) | 5 (13.0) | 5 (13.0) | 6 (12.5) | 9 (15.0) |
| Sphere Engine | 1 (7.0) | 2 (10.0) | 2 (10.0) | 1 (6.0) | 14 (26.0) |
| AWS Cloud9 | 11 (19.5) | 10 (19.0) | 10 (19.0) | 12 (19.5) | 1 (6.5) |

Table 4: N-body tools ranked with 3 decimal points