

Tool Name	Execution Time (s)	Total Energy (J)	CPU Energy (J)	Memory Energy (J)	Energy/Time (J/s)
CMake	3 (3.2)	5 (6.2)	6 (7.0)	3 (3.2)	4 (1.5)
qmake	2 (3.0)	4 (6.0)	6 (7.0)	2 (3.0)	2 (1.3)
Qbs	4 (3.5)	2 (5.5)	3 (6.5)	4 (3.5)	4 (1.5)
NetBeans IDE	5 (4.0)	7 (8.5)	8 (9.5)	5 (4.0)	4 (1.5)
Code::Blocks	7 (6.0)	9 (12.0)	10 (14.0)	7 (6.0)	6 (2.0)
CLion	3 (3.2)	5 (6.2)	6 (7.0)	3 (3.2)	4 (1.5)
CodeLite	5 (4.0)	6 (7.5)	7 (8.5)	5 (4.0)	4 (1.5)
Eclipse CDT	4 (3.5)	4 (6.0)	2 (6.0)	4 (3.5)	6 (2.0)
KDevelop	3 (3.2)	5 (6.2)	6 (7.0)	3 (3.2)	4 (1.5)
Geany	8 (7.0)	11 (14.0)	11 (15.0)	7 (6.0)	6 (2.0)
Anjuta DevStudio	6 (5.0)	8 (10.2)	9 (11.5)	6 (5.0)	5 (1.8)
Qt Creator	3 (3.2)	4 (6.0)	5 (6.9)	3 (3.2)	3 (1.4)
DialogBlocks	5 (4.0)	6 (7.5)	7 (8.5)	5 (4.0)	4 (1.5)
Zinjal	5 (4.0)	6 (7.5)	7 (8.5)	5 (4.0)	4 (1.5)
GPS	2 (3.0)	3 (5.8)	4 (6.8)	2 (3.0)	4 (1.5)
Oracle Developer Studio	5 (4.0)	7 (8.5)	8 (9.5)	5 (4.0)	4 (1.5)
Sphere Engine	1 (2.0)	1 (3.0)	1 (3.0)	1 (2.0)	1 (1.0)
AWS Cloud9	7 (6.0)	10 (12.5)	10 (14.0)	7 (6.0)	6 (2.0)

Table 1: fannkuch-redux tools ranked with 0 decimal points

Tool Name	Execution Time (s)	Total Energy (J)	CPU Energy (J)	Memory Energy (J)	Energy/Time (J/s)
CMake	3 (4.0)	6 (11.2)	6 (11.2)	3 (3.2)	5 (4.0)
qmake	3 (4.0)	7 (12.0)	7 (12.0)	2 (3.0)	3 (3.7)
Qbs	5 (4.5)	3 (9.5)	3 (9.5)	4 (3.5)	5 (4.0)
NetBeans IDE	5 (4.5)	9 (15.0)	9 (15.0)	5 (4.0)	6 (4.5)
Code::Blocks	8 (7.0)	11 (20.0)	11 (20.0)	7 (6.0)	9 (7.0)
CLion	3 (4.0)	6 (11.2)	6 (11.2)	3 (3.2)	5 (4.0)
CodeLite	5 (4.5)	8 (13.0)	8 (13.0)	5 (4.0)	5 (4.0)
Eclipse CDT	3 (4.0)	2 (9.0)	2 (9.0)	5 (4.0)	7 (5.0)
KDevelop	3 (4.0)	6 (11.2)	6 (11.2)	3 (3.2)	5 (4.0)
Geany	8 (7.0)	13 (23.0)	13 (23.0)	7 (6.0)	9 (7.0)
Anjuta DevStudio	7 (5.8)	10 (17.2)	10 (17.2)	6 (5.0)	8 (5.5)
Qt Creator	4 (4.1)	5 (11.1)	5 (11.1)	3 (3.2)	4 (3.9)
DialogBlocks	6 (5.0)	7 (12.0)	7 (12.0)	5 (4.0)	5 (4.0)
Zinjal	5 (4.5)	8 (13.0)	8 (13.0)	5 (4.0)	5 (4.0)
GPS	2 (3.5)	4 (10.2)	4 (10.2)	2 (3.0)	2 (3.5)
Oracle Developer Studio	5 (4.5)	9 (15.0)	9 (15.0)	5 (4.0)	6 (4.5)
Sphere Engine	1 (3.0)	1 (4.0)	1 (4.0)	1 (2.0)	1 (1.0)
AWS Cloud9	8 (7.0)	12 (20.5)	12 (20.5)	7 (6.0)	9 (7.0)

Table 2: fannkuch-redux 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	4 (6.2)	6 (12.2)	6 (11.5)	5 (5.5)	7 (9.8)
qmake	2 (5.7)	8 (13.0)	7 (12.0)	3 (4.7)	9 (10.7)
Qbs	5 (6.5)	3 (10.5)	3 (9.5)	5 (5.5)	2 (8.0)
NetBeans IDE	6 (7.5)	10 (16.5)	9 (15.5)	7 (6.5)	8 (10.5)
Code::Blocks	8 (9.0)	12 (21.0)	11 (20.0)	10 (8.0)	12 (16.0)
CLion	4 (6.2)	6 (12.2)	6 (11.5)	5 (5.5)	7 (9.8)
CodeLite	7 (8.0)	9 (14.0)	8 (13.0)	7 (6.5)	4 (9.0)
Eclipse CDT	5 (6.5)	2 (9.5)	2 (9.0)	8 (7.0)	10 (11.0)
KDevelop	4 (6.2)	6 (12.2)	6 (11.5)	5 (5.5)	7 (9.8)
Geany	10 (13.0)	14 (25.0)	13 (24.0)	12 (11.0)	14 (18.0)
Anjuta DevStudio	8 (9.0)	11 (18.8)	10 (17.8)	9 (7.8)	11 (13.2)
Qt Creator	3 (6.1)	5 (12.1)	5 (11.2)	4 (5.2)	6 (9.7)
DialogBlocks	5 (6.5)	7 (12.5)	7 (12.0)	5 (5.5)	3 (8.5)
Zinjal	5 (6.5)	9 (14.0)	8 (13.0)	6 (6.0)	5 (9.5)
GPS	1 (5.0)	4 (11.0)	4 (10.2)	2 (4.2)	3 (8.5)
Oracle Developer Studio	6 (7.5)	10 (16.5)	9 (15.5)	7 (6.5)	8 (10.5)
Sphere Engine	1 (5.0)	1 (4.0)	1 (4.0)	1 (4.0)	1 (1.0)
AWS Cloud9	9 (9.5)	13 (21.5)	12 (20.5)	11 (8.5)	13 (16.5)

Table 3: fannkuch-redux 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	5 (11.8)	6 (12.2)	6 (12.2)	5 (11.2)	6 (13.5)
qmake	2 (10.0)	8 (13.0)	8 (13.0)	2 (9.3)	9 (15.0)
Qbs	7 (13.0)	3 (10.5)	3 (10.5)	8 (13.0)	2 (10.5)
NetBeans IDE	7 (13.0)	10 (16.5)	10 (16.5)	7 (12.5)	8 (14.5)
Code::Blocks	10 (17.0)	12 (21.0)	12 (21.0)	10 (17.0)	11 (20.0)
CLion	5 (11.8)	6 (12.2)	6 (12.2)	5 (11.2)	6 (13.5)
CodeLite	8 (14.0)	9 (14.0)	9 (14.0)	8 (13.0)	4 (12.0)
Eclipse CDT	7 (13.0)	2 (9.5)	2 (9.5)	8 (13.0)	7 (14.0)
KDevelop	5 (11.8)	6 (12.2)	6 (12.2)	5 (11.2)	6 (13.5)
Geany	12 (25.0)	14 (25.0)	14 (25.0)	12 (23.0)	13 (24.0)
Anjuta DevStudio	9 (16.2)	11 (18.8)	11 (18.8)	9 (15.8)	10 (17.0)
Qt Creator	4 (11.4)	5 (12.1)	5 (12.1)	4 (11.0)	5 (13.3)
DialogBlocks	6 (12.0)	7 (12.5)	7 (12.5)	6 (11.5)	2 (10.5)
Zinjal	3 (11.0)	9 (14.0)	9 (14.0)	4 (11.0)	4 (12.0)
GPS	1 (8.8)	4 (11.0)	4 (11.0)	1 (8.8)	3 (10.8)
Oracle Developer Studio	7 (13.0)	10 (16.5)	10 (16.5)	7 (12.5)	8 (14.5)
Sphere Engine	2 (10.0)	1 (4.0)	1 (4.0)	3 (10.0)	1 (1.0)
AWS Cloud9	11 (18.0)	13 (21.5)	13 (21.5)	11 (17.5)	12 (21.0)

Table 4: fannkuch-redux tools ranked with 3 decimal points