

Tool Name	Execution Time (s)	Total Energy (J)	CPU Energy (J)	Memory Energy (J)	Energy/Time (J/s)
CMake	1 (1.0)	6 (2.5)	6 (3.2)	3 (1.2)	1 (1.0)
qmake	1 (1.0)	2 (1.7)	1 (1.7)	1 (1.0)	1 (1.0)
Qbs	1 (1.0)	7 (3.0)	5 (3.0)	1 (1.0)	1 (1.0)
NetBeans IDE	1 (1.0)	1 (1.5)	3 (2.5)	1 (1.0)	1 (1.0)
Code::Blocks	1 (1.0)	7 (3.0)	5 (3.0)	1 (1.0)	1 (1.0)
CLion	1 (1.0)	6 (2.5)	6 (3.2)	3 (1.2)	1 (1.0)
CodeLite	1 (1.0)	6 (2.5)	7 (3.5)	1 (1.0)	1 (1.0)
Eclipse CDT	1 (1.0)	4 (2.0)	5 (3.0)	1 (1.0)	1 (1.0)
KDevelop	1 (1.0)	6 (2.5)	6 (3.2)	3 (1.2)	1 (1.0)
Geany	1 (1.0)	7 (3.0)	8 (4.0)	1 (1.0)	1 (1.0)
Anjuta DevStudio	1 (1.0)	4 (2.0)	2 (2.2)	1 (1.0)	1 (1.0)
Qt Creator	1 (1.0)	5 (2.3)	4 (2.7)	2 (1.1)	1 (1.0)
DialogBlocks	1 (1.0)	4 (2.0)	3 (2.5)	1 (1.0)	1 (1.0)
ZinJal	1 (1.0)	6 (2.5)	7 (3.5)	1 (1.0)	1 (1.0)
GPS	1 (1.0)	3 (1.8)	2 (2.2)	1 (1.0)	1 (1.0)
Oracle Developer Studio	1 (1.0)	1 (1.5)	3 (2.5)	1 (1.0)	1 (1.0)
Sphere Engine	1 (1.0)	4 (2.0)	5 (3.0)	1 (1.0)	1 (1.0)
AWS Cloud9	1 (1.0)	8 (3.5)	8 (4.0)	1 (1.0)	1 (1.0)

Table 1: regex-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	6 (1.8)	6 (7.8)	6 (9.8)	6 (1.8)	3 (2.2)
qmake	3 (1.3)	1 (4.0)	1 (5.3)	3 (1.3)	2 (2.0)
Qbs	4 (1.5)	7 (8.5)	8 (11.5)	7 (2.0)	4 (2.5)
NetBeans IDE	4 (1.5)	2 (6.0)	3 (7.5)	4 (1.5)	2 (2.0)
Code::Blocks	7 (2.0)	9 (10.0)	10 (13.0)	7 (2.0)	2 (2.0)
CLion	6 (1.8)	6 (7.8)	6 (9.8)	6 (1.8)	3 (2.2)
CodeLite	4 (1.5)	8 (9.0)	8 (11.5)	4 (1.5)	2 (2.0)
Eclipse CDT	4 (1.5)	7 (8.5)	7 (10.0)	4 (1.5)	4 (2.5)
KDevelop	6 (1.8)	6 (7.8)	6 (9.8)	6 (1.8)	3 (2.2)
Geany	7 (2.0)	9 (10.0)	10 (13.0)	7 (2.0)	2 (2.0)
Anjuta DevStudio	6 (1.8)	2 (6.0)	2 (7.2)	6 (1.8)	1 (1.5)
Qt Creator	5 (1.6)	4 (6.7)	5 (8.7)	5 (1.7)	3 (2.2)
DialogBlocks	4 (1.5)	3 (6.5)	4 (8.0)	4 (1.5)	1 (1.5)
Zinjal	4 (1.5)	9 (10.0)	9 (12.5)	4 (1.5)	5 (3.0)
GPS	2 (1.2)	2 (6.0)	3 (7.5)	2 (1.2)	2 (2.0)
Oracle Developer Studio	4 (1.5)	2 (6.0)	3 (7.5)	4 (1.5)	2 (2.0)
Sphere Engine	1 (1.0)	5 (7.0)	7 (10.0)	1 (1.0)	2 (2.0)
AWS Cloud9	7 (2.0)	10 (12.0)	11 (15.0)	7 (2.0)	4 (2.5)

Table 2: regex-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	7 (5.0)	7 (12.8)	8 (13.8)	4 (4.5)	7 (7.0)
qmake	1 (2.7)	1 (7.3)	1 (7.3)	1 (3.0)	2 (4.3)
Qbs	6 (4.5)	9 (15.5)	11 (17.0)	4 (4.5)	10 (9.5)
NetBeans IDE	8 (5.5)	2 (9.5)	2 (10.0)	5 (5.0)	3 (4.5)
Code::Blocks	11 (7.0)	11 (18.0)	13 (19.0)	7 (6.0)	7 (7.0)
CLion	7 (5.0)	7 (12.8)	8 (13.8)	4 (4.5)	7 (7.0)
CodeLite	4 (4.0)	9 (15.5)	10 (16.5)	2 (3.5)	10 (9.5)
Eclipse CDT	7 (5.0)	8 (14.0)	9 (15.0)	4 (4.5)	7 (7.0)
KDevelop	7 (5.0)	7 (12.8)	8 (13.8)	4 (4.5)	7 (7.0)
Geany	10 (6.0)	12 (19.0)	14 (20.0)	5 (5.0)	8 (8.0)
Anjuta DevStudio	9 (5.8)	3 (9.8)	3 (10.2)	6 (5.2)	1 (3.2)
Qt Creator	5 (4.1)	5 (11.6)	6 (12.3)	3 (4.0)	6 (6.7)
DialogBlocks	7 (5.0)	4 (11.0)	5 (11.5)	4 (4.5)	4 (5.5)
Zinjal	4 (4.0)	10 (17.5)	12 (18.5)	3 (4.0)	11 (10.0)
GPS	3 (3.8)	3 (9.8)	4 (10.5)	2 (3.5)	5 (5.8)
Oracle Developer Studio	8 (5.5)	2 (9.5)	2 (10.0)	5 (5.0)	3 (4.5)
Sphere Engine	2 (3.0)	6 (12.0)	7 (13.0)	1 (3.0)	9 (9.0)
AWS Cloud9	12 (7.5)	13 (21.0)	15 (22.0)	8 (6.5)	11 (10.0)

Table 3: regex-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	9 (13.0)	7 (13.5)	8 (13.8)	7 (13.5)	6 (11.8)
qmake	1 (5.7)	1 (7.7)	1 (7.3)	1 (7.7)	3 (6.7)
Qbs	6 (10.0)	9 (16.5)	11 (17.0)	8 (14.0)	9 (16.0)
NetBeans IDE	11 (15.0)	2 (10.5)	2 (10.0)	12 (16.5)	2 (6.5)
Code::Blocks	12 (19.0)	11 (19.0)	13 (19.0)	14 (21.0)	5 (11.0)
CLion	9 (13.0)	7 (13.5)	8 (13.8)	7 (13.5)	6 (11.8)
CodeLite	3 (9.0)	9 (16.5)	10 (16.5)	2 (9.5)	10 (16.5)
Eclipse CDT	9 (13.0)	8 (14.5)	9 (15.0)	11 (15.5)	7 (12.5)
KDevelop	9 (13.0)	7 (13.5)	8 (13.8)	7 (13.5)	6 (11.8)
Geany	10 (14.0)	12 (20.0)	14 (20.0)	10 (15.0)	8 (14.0)
Anjuta DevStudio	11 (15.0)	3 (10.8)	3 (10.2)	13 (17.5)	1 (4.5)
Qt Creator	5 (9.9)	5 (12.2)	6 (12.3)	5 (11.7)	5 (11.0)
DialogBlocks	8 (12.5)	4 (11.5)	5 (11.5)	9 (14.5)	4 (9.0)
Zinjal	7 (10.5)	10 (18.5)	12 (18.5)	6 (12.0)	12 (19.5)
GPS	4 (9.2)	3 (10.8)	4 (10.5)	3 (10.5)	4 (9.0)
Oracle Developer Studio	11 (15.0)	2 (10.5)	2 (10.0)	12 (16.5)	2 (6.5)
Sphere Engine	2 (7.0)	6 (13.0)	7 (13.0)	4 (11.0)	9 (16.0)
AWS Cloud9	13 (20.0)	13 (22.0)	15 (22.0)	15 (22.0)	11 (17.0)

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