Tool Name	Execution Time (s)	Total Energy (J)	CPU Energy (J)	Memory Energy (J)	Energy/Time (J/s)
CMake	2 (1.2)	6 (5.5)	6 (6.5)	2 (1.2)	4 (2.0)
qmake	3 (1.3)	2 (3.0)	2 (4.0)	3 (1.3)	2 (1.7)
Qbs	4 (1.5)	4 (4.5)	5 (5.5)	4 (1.5)	1 (1.5)
NetBeans IDE	4 (1.5)	7 (7.0)	7 (7.5)	4 (1.5)	4 (2.0)
Code::Blocks	6 (2.0)	11 (11.0)	12 (12.0)	6 (2.0)	4 (2.0)
CLion	2 (1.2)	6 (5.5)	6 (6.5)	2 (1.2)	4 (2.0)
CodeLite	4 (1.5)	7 (7.0)	8 (8.0)	4 (1.5)	4 (2.0)
Eclipse CDT	4 (1.5)	9 (8.0)	10 (9.0)	4 (1.5)	4 (2.0)
KDevelop	2 (1.2)	6 (5.5)	6 (6.5)	2 (1.2)	4 (2.0)
Geany	6 (2.0)	13 (14.0)	14 (15.0)	6 (2.0)	4 (2.0)
Anjuta DevStudio	5 (1.8)	8 (7.5)	9 (8.2)	5 (1.8)	1 (1.5)
Qt Creator	3 (1.3)	3 (4.4)	4 (5.4)	3 (1.3)	3 (1.8)
DialogBlocks	4 (1.5)	7 (7.0)	8 (8.0)	4 (1.5)	4 (2.0)
ZinjaI	4 (1.5)	10 (10.0)	11 (10.5)	4 (1.5)	5 (2.5)
GPS	2 (1.2)	5 (4.8)	3 (5.2)	2 (1.2)	4 (2.0)
Oracle Developer Studio	4 (1.5)	7 (7.0)	7 (7.5)	4 (1.5)	4 (2.0)
Sphere Engine	1 (1.0)	1 (2.0)	1 (3.0)	1 (1.0)	4 (2.0)
AWS Cloud9	6 (2.0)	12 (13.0)	13 (14.0)	6 (2.0)	5 (2.5)

Table 1: Chameneos-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 (11.5)	5 (12.5)	3 (2.2)	10 (9.5)
qmake	6 (4.7)	2 (6.7)	1 (7.0)	4 (2.7)	3 (5.3)
Qbs	8 (5.5)	5 (9.5)	4 (10.5)	6 (3.5)	1 (5.0)
NetBeans IDE	8 (5.5)	7 (12.0)	5 (12.5)	5 (3.0)	6 (7.5)
Code::Blocks	11 (8.0)	12 (19.0)	10 (20.0)	8 (5.0)	4 (6.0)
CLion	3 (4.0)	6 (11.5)	5 (12.5)	3 (2.2)	10 (9.5)
CodeLite	7 (5.0)	9 (14.5)	7 (15.5)	5 (3.0)	9 (9.0)
Eclipse CDT	7 (5.0)	10 (15.0)	8 (16.0)	5 (3.0)	10 (9.5)
KDevelop	3 (4.0)	6 (11.5)	5 (12.5)	3 (2.2)	10 (9.5)
Geany	10 (7.0)	14 (23.0)	12 (24.0)	7 (4.0)	12 (12.0)
Anjuta DevStudio	9 (6.8)	8 (13.8)	6 (14.5)	7 (4.0)	2 (5.2)
Qt Creator	5 (4.6)	4 (9.4)	3 (10.2)	4 (2.7)	5 (7.1)
DialogBlocks	4 (4.5)	9 (14.5)	7 (15.5)	5 (3.0)	10 (9.5)
ZinjaI	2 (3.5)	11 (17.5)	9 (18.5)	2 (2.0)	13 (15.0)
GPS	3 (4.0)	3 (8.8)	2 (9.2)	3 (2.2)	8 (8.2)
Oracle Developer Studio	8 (5.5)	7 (12.0)	5 (12.5)	5 (3.0)	6 (7.5)
Sphere Engine	1 (3.0)	1 (6.0)	1 (7.0)	1 (1.0)	7 (8.0)
AWS Cloud9	10 (7.0)	13 (21.5)	11 (22.5)	7 (4.0)	11 (11.0)

Table 2: Chameneos-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 (10.2)	6 (11.5)	5 (12.5)	5 (9.2)	8 (13.8)
qmake	6 (10.7)	2 (6.7)	1 (7.0)	4 (9.0)	2 (7.0)
Qbs	11 (14.0)	5 (9.5)	4 (10.5)	9 (11.5)	2 (7.0)
NetBeans IDE	10 (13.0)	7 (12.0)	5 (12.5)	7 (10.0)	3 (9.5)
Code::Blocks	14 (16.0)	12 (19.0)	10 (20.0)	12 (15.0)	2 (7.0)
CLion	4 (10.2)	6 (11.5)	5 (12.5)	5 (9.2)	8 (13.8)
CodeLite	7 (11.0)	9 (14.5)	7 (15.5)	8 (11.0)	7 (13.0)
Eclipse CDT	9 (12.0)	10 (15.0)	8 (16.0)	8 (11.0)	9 (14.5)
KDevelop	4 (10.2)	6 (11.5)	5 (12.5)	5 (9.2)	8 (13.8)
Geany	11 (14.0)	14 (23.0)	12 (24.0)	11 (14.0)	11 (17.0)
Anjuta DevStudio	13 (15.2)	8 (13.8)	6 (14.5)	10 (13.5)	1 (6.2)
Qt Creator	8 (11.2)	4 (9.4)	3 (10.2)	6 (9.7)	4 (10.0)
DialogBlocks	5 (10.5)	9 (14.5)	7 (15.5)	7 (10.0)	7 (13.0)
ZinjaI	1 (7.0)	11 (17.5)	9 (18.5)	2 (6.0)	12 (22.0)
GPS	3 (9.0)	3 (8.8)	2 (9.2)	3 (7.5)	5 (11.0)
Oracle Developer Studio	10 (13.0)	7 (12.0)	5 (12.5)	7 (10.0)	3 (9.5)
Sphere Engine	2 (8.0)	1 (6.0)	1 (7.0)	1 (5.0)	6 (12.0)
AWS Cloud9	12 (14.5)	13 (21.5)	11 (22.5)	10 (13.5)	10 (15.0)

Table 3: Chameneos-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	4 (12.0)	5 (12.5)	5 (12.5)	7 (12.8)	10 (14.2)
qmake	5 (12.3)	1 (7.0)	1 (7.0)	4 (11.3)	3 (7.3)
Qbs	10 (16.0)	4 (10.5)	4 (10.5)	9 (14.0)	4 (7.5)
NetBeans IDE	9 (15.0)	5 (12.5)	5 (12.5)	8 (13.0)	5 (9.5)
Code::Blocks	13 (19.0)	10 (20.0)	10 (20.0)	13 (18.0)	2 (7.0)
CLion	4 (12.0)	5 (12.5)	5 (12.5)	7 (12.8)	10 (14.2)
CodeLite	6 (12.5)	7 (15.5)	7 (15.5)	9 (14.0)	9 (13.5)
Eclipse CDT	8 (14.0)	8 (16.0)	8 (16.0)	9 (14.0)	11 (15.5)
KDevelop	4 (12.0)	5 (12.5)	5 (12.5)	7 (12.8)	10 (14.2)
Geany	11 (17.0)	12 (24.0)	12 (24.0)	12 (17.0)	12 (18.0)
Anjuta DevStudio	12 (17.8)	6 (14.5)	6 (14.5)	11 (16.8)	1 (6.2)
Qt Creator	7 (13.0)	3 (10.2)	3 (10.2)	6 (12.6)	6 (10.4)
DialogBlocks	4 (12.0)	7 (15.5)	7 (15.5)	5 (12.5)	9 (13.5)
ZinjaI	1 (8.0)	9 (18.5)	9 (18.5)	2 (7.5)	13 (23.0)
GPS	3 (10.5)	2 (9.2)	2 (9.2)	3 (9.2)	7 (11.2)
Oracle Developer Studio	9 (15.0)	5 (12.5)	5 (12.5)	8 (13.0)	5 (9.5)
Sphere Engine	2 (9.0)	1 (7.0)	1 (7.0)	1 (7.0)	8 (13.0)
AWS Cloud9	11 (17.0)	11 (22.5)	11 (22.5)	10 (16.5)	11 (15.5)

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