

Tool Name	Execution Time (s)	Total Energy (J)	CPU Energy (J)	Memory Energy (J)	Energy/Time (J/s)
CMake	3 (22.2)	3 (42.5)	3 (43.5)	3 (20.2)	3 (19.0)
qmake	4 (23.0)	4 (43.0)	4 (44.0)	4 (20.7)	3 (19.0)
Qbs	9 (26.5)	7 (51.0)	7 (52.0)	10 (23.5)	5 (19.5)
NetBeans IDE	8 (26.0)	10 (54.0)	9 (55.0)	9 (23.0)	6 (20.0)
Code::Blocks	12 (34.0)	12 (79.0)	11 (81.0)	13 (32.0)	10 (23.0)
CLion	3 (22.2)	3 (42.5)	3 (43.5)	3 (20.2)	3 (19.0)
CodeLite	6 (24.5)	7 (51.0)	8 (53.5)	8 (22.5)	7 (20.5)
Eclipse CDT	6 (24.5)	6 (48.0)	6 (49.5)	5 (21.0)	5 (19.5)
KDevelop	3 (22.2)	3 (42.5)	3 (43.5)	3 (20.2)	3 (19.0)
Geany	13 (35.0)	13 (80.0)	13 (84.0)	12 (31.0)	10 (23.0)
Anjuta DevStudio	10 (30.5)	11 (65.0)	10 (67.5)	11 (27.5)	8 (20.8)
Qt Creator	5 (23.4)	5 (44.6)	5 (45.6)	6 (21.1)	4 (19.1)
DialogBlocks	7 (25.5)	8 (52.0)	9 (55.0)	9 (23.0)	5 (19.5)
ZinJal	6 (24.5)	9 (53.0)	8 (53.5)	7 (22.0)	5 (19.5)
GPS	2 (21.5)	2 (40.2)	2 (41.0)	2 (18.8)	2 (18.8)
Oracle Developer Studio	8 (26.0)	10 (54.0)	9 (55.0)	9 (23.0)	6 (20.0)
Sphere Engine	1 (19.0)	1 (29.0)	1 (31.0)	1 (15.0)	1 (18.0)
AWS Cloud9	11 (33.0)	14 (80.5)	12 (82.5)	12 (31.0)	9 (22.5)

Table 1: 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 (41.2)	3 (101.2)	3 (96.2)	3 (39.8)	3 (46.8)
qmake	8 (45.3)	4 (105.7)	4 (99.3)	6 (42.3)	4 (47.0)
Qbs	11 (50.5)	9 (124.5)	9 (119.5)	11 (49.5)	7 (50.0)
NetBeans IDE	10 (49.5)	11 (127.0)	9 (119.5)	10 (47.5)	7 (50.0)
Code::Blocks	15 (65.0)	15 (179.0)	14 (174.0)	15 (60.0)	11 (59.0)
CLion	3 (41.2)	3 (101.2)	3 (96.2)	3 (39.8)	3 (46.8)
CodeLite	6 (44.0)	7 (118.0)	7 (114.0)	7 (42.5)	8 (50.5)
Eclipse CDT	5 (43.5)	6 (112.5)	6 (108.0)	5 (42.0)	6 (49.0)
KDevelop	3 (41.2)	3 (101.2)	3 (96.2)	3 (39.8)	3 (46.8)
Geany	14 (63.0)	13 (170.0)	12 (165.0)	14 (59.0)	12 (62.0)
Anjuta DevStudio	12 (57.2)	12 (150.5)	11 (143.0)	12 (54.5)	9 (52.0)
Qt Creator	7 (44.7)	5 (107.9)	5 (102.4)	8 (42.8)	5 (47.6)
DialogBlocks	9 (46.0)	10 (125.5)	10 (120.0)	9 (44.5)	9 (52.0)
Zinjal	4 (42.0)	8 (121.5)	8 (116.5)	4 (40.5)	10 (58.0)
GPS	2 (38.0)	2 (96.2)	2 (91.5)	2 (35.8)	2 (46.5)
Oracle Developer Studio	10 (49.5)	11 (127.0)	9 (119.5)	10 (47.5)	7 (50.0)
Sphere Engine	1 (33.0)	1 (81.0)	1 (79.0)	1 (34.0)	1 (44.0)
AWS Cloud9	13 (61.0)	14 (178.5)	13 (173.0)	13 (55.5)	13 (63.5)

Table 2: 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 (87.2)	3 (128.8)	3 (127.5)	4 (81.2)	2 (109.8)
qmake	6 (92.7)	4 (136.7)	4 (133.7)	7 (87.0)	3 (112.3)
Qbs	10 (109.5)	11 (164.0)	11 (160.5)	11 (103.0)	7 (119.0)
NetBeans IDE	9 (108.0)	10 (162.0)	10 (158.0)	10 (99.5)	6 (116.0)
Code::Blocks	14 (137.0)	15 (226.0)	15 (231.0)	14 (120.0)	12 (143.0)
CLion	4 (87.2)	3 (128.8)	3 (127.5)	4 (81.2)	2 (109.8)
CodeLite	5 (88.0)	7 (148.5)	7 (151.0)	3 (80.0)	9 (122.0)
Eclipse CDT	8 (96.0)	6 (139.5)	6 (144.0)	6 (86.0)	5 (113.5)
KDevelop	4 (87.2)	3 (128.8)	3 (127.5)	4 (81.2)	2 (109.8)
Geany	13 (133.0)	13 (216.0)	13 (214.0)	15 (121.0)	11 (139.0)
Anjuta DevStudio	11 (123.0)	12 (188.8)	12 (189.0)	12 (111.8)	8 (121.8)
Qt Creator	7 (94.0)	5 (139.2)	5 (136.9)	8 (88.0)	4 (112.7)
DialogBlocks	7 (94.0)	9 (156.0)	9 (156.0)	9 (89.0)	9 (122.0)
Zinjal	3 (87.0)	8 (153.0)	8 (152.5)	5 (83.0)	10 (126.5)
GPS	2 (76.5)	2 (121.8)	2 (123.2)	2 (71.2)	5 (113.5)
Oracle Developer Studio	9 (108.0)	10 (162.0)	10 (158.0)	10 (99.5)	6 (116.0)
Sphere Engine	1 (71.0)	1 (103.0)	1 (106.0)	1 (67.0)	1 (107.0)
AWS Cloud9	12 (127.0)	14 (223.5)	14 (224.5)	13 (114.0)	13 (148.0)

Table 3: 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 (123.0)	3 (137.2)	3 (136.5)	3 (119.0)	3 (142.8)
qmake	6 (129.3)	4 (146.3)	4 (144.7)	5 (126.0)	2 (140.7)
Qbs	10 (153.5)	11 (177.5)	11 (173.0)	10 (152.0)	8 (155.5)
NetBeans IDE	10 (153.5)	10 (172.5)	10 (169.0)	9 (148.5)	7 (150.5)
Code::Blocks	13 (200.0)	15 (243.0)	15 (249.0)	14 (193.0)	14 (187.0)
CLion	3 (123.0)	3 (137.2)	3 (136.5)	3 (119.0)	3 (142.8)
CodeLite	4 (123.5)	7 (157.0)	7 (159.5)	4 (123.0)	11 (160.0)
Eclipse CDT	9 (137.5)	5 (148.5)	6 (153.5)	7 (130.0)	5 (145.0)
KDevelop	3 (123.0)	3 (137.2)	3 (136.5)	3 (119.0)	3 (142.8)
Geany	14 (201.0)	13 (232.0)	13 (231.0)	13 (191.0)	13 (181.0)
Anjuta DevStudio	11 (176.8)	12 (201.5)	12 (201.8)	11 (171.5)	9 (156.2)
Qt Creator	7 (131.9)	6 (149.2)	5 (147.3)	6 (128.7)	4 (144.9)
DialogBlocks	8 (136.0)	9 (164.5)	9 (164.5)	8 (136.0)	10 (157.0)
Zinjal	5 (128.5)	8 (163.5)	8 (162.5)	7 (130.0)	12 (163.0)
GPS	2 (110.0)	2 (130.2)	2 (132.2)	2 (107.0)	6 (147.8)
Oracle Developer Studio	10 (153.5)	10 (172.5)	10 (169.0)	9 (148.5)	7 (150.5)
Sphere Engine	1 (95.0)	1 (110.0)	1 (110.0)	1 (96.0)	1 (137.0)
AWS Cloud9	12 (188.5)	14 (237.5)	14 (240.0)	12 (185.0)	15 (193.0)

Table 4: Tools ranked with 3 decimal points