

TABLE S1
WORKFLOW MANAGEMENT SYSTEMS RANKING BY METRICS (VALUES)

Workflow	Elapsed time (seconds)	Maximum CPU usage (%)	Median CPU usage (%)	Maximum memory (MB)	Median memory (MB)	n.o. voluntary context switches/sec	n.o. involuntary context switches/sec	I/O wait time (seconds)	Idle time (seconds)	n.o. inodes per task	Global rank
cromwell	330.0	100.0	3.1	1304.6	675.9	6.1	1.0	8.4	241.3	64.5	3.5
nextflow	240.0	100.0	3.2	420.9	329.7	44.0	1.9	5.3	137.0	24.3	2.8
PMC	240.0	6.2	2.1	4.1	3.1	74.5	144.3	2.9	150.8	7.7	1.9
snakemake	222.0	86.0	3.3	31.7	20.5	605.7	22.1	2.7	136.3	11.5	2.2
cwltoil	360.0	100.0	9.2	106.5	72.7	2814.5	5873.4	5.7	249.1	56.4	4.2