	Spark (Scala)			Flink (Scala)			$\operatorname{Thrill}$		l
	CPU		Net	CPU		Net	CPU		Net
WordCount	$49\mathrm{s}$	64 PageRank	$392\mathrm{s}$	29 TeraSort	$76\mathrm{s}$	20 KMean	81 s	27	

The table shows the CPU utilization as seconds and percentage of total

running time, and the average network bandwidth in MiB/s, both averaged over all hosts during the benchmark run with 16 hosts. TeraSort shows Spark (Java), as we have no Scala implementation.