

Benchmark of NanoPi-NEO / GNU/Linux on Thu Jul 25 2019

BYTE UNIX Benchmarks (Version 5.1.2)

Test System Information

System:	NanoPi-NEO: GNU/Linux		
OS:	GNU/Linux -- 4.14.111 -- #64 SMP Mon May 20 15:32:02 CST 2019		
Machine:	armv7l: armv7l		
Language:	en_US.utf8 (charmap="UTF-8", collate="UTF-8")		
CPUs:	0:	ARMv7 Processor rev 5 (v7l) (0.0 bogomips)	
	1:	ARMv7 Processor rev 5 (v7l) (0.0 bogomips)	
	2:	ARMv7 Processor rev 5 (v7l) (0.0 bogomips)	
	3:	ARMv7 Processor rev 5 (v7l) (0.0 bogomips)	
Uptime:	17:14:55 up 5 min, 3 users, load average: 0.43, 0.25, 0.11; runlevel 5		

Benchmark Run: 4 CPUs; 1 parallel process

Time: 17:14:55 - 17:41:35; 26m 40s

System Benchmarks

Test	Score	Unit	Time	Iters.	Baseline	Index
Dhrystone 2 using register variables	3152602.2	lps	10.0 s	7	116700.0	270.1
Double-Precision Whetstone	456.6	MWIPS	1.7 s	7	55.0	83.0
Execl Throughput	600.6	lps	29.5 s	2	43.0	139.7
File Copy 1024 bufsize 2000 maxblocks	70544.0	KBps	30.0 s	2	3960.0	178.1
File Copy 256 bufsize 500 maxblocks	22664.5	KBps	30.0 s	2	1655.0	136.9
File Copy 4096 bufsize 8000 maxblocks	155548.0	KBps	30.0 s	2	5800.0	268.2
Pipe Throughput	183732.5	lps	10.1 s	7	12440.0	147.7
Pipe-based Context Switching	22690.2	lps	10.0 s	7	4000.0	56.7
Process Creation	746.3	lps	30.1 s	2	126.0	59.2
Shell Scripts (1 concurrent)	792.3	lpm	60.1 s	2	42.4	186.9
Shell Scripts (8 concurrent)	300.0	lpm	60.1 s	2	6.0	499.9
System Call Overhead	539770.0	lps	10.0 s	7	15000.0	359.8
System Benchmarks Index Score:						162.6

Benchmark Run: 4 CPUs; 4 parallel processes

Time: 17:41:35 - 18:08:27; 26m 52s

System Benchmarks

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Test	Score	Unit	Time	Iters.	Baseline	Index
Dhrystone 2 using register variables	9968599.1	lps	10.1 s	7	116700.0	854.2
Double-Precision Whetstone	1786.5	MWIPS	2.6 s	7	55.0	324.8
Execl Throughput	1503.3	lps	29.9 s	2	43.0	349.6
File Copy 1024 bufsize 2000 maxblocks	137328.0	KBps	30.0 s	2	3960.0	346.8
File Copy 256 bufsize 500 maxblocks	43672.3	KBps	30.0 s	2	1655.0	263.9
File Copy 4096 bufsize 8000 maxblocks	315076.8	KBps	30.0 s	2	5800.0	543.2
Pipe Throughput	909421.6	lps	10.1 s	7	12440.0	731.0
Pipe-based Context Switching	129683.1	lps	10.1 s	7	4000.0	324.2
Process Creation	3387.7	lps	30.1 s	2	126.0	268.9
Shell Scripts (1 concurrent)	2956.4	lpm	60.1 s	2	42.4	697.3
Shell Scripts (8 concurrent)	320.4	lpm	60.5 s	2	6.0	534.0
System Call Overhead	2574040.9	lps	10.1 s	7	15000.0	1716.0
System Benchmarks Index Score:						491.0

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