

# Benchmark of raspberrypi3B / GNU/Linux on Fri Mar 30 2018

BYTE UNIX Benchmarks (Version 5.1.3)

## Test System Information

|                  |                                                                         |                                            |  |
|------------------|-------------------------------------------------------------------------|--------------------------------------------|--|
| <b>System:</b>   | raspberrypi3B: GNU/Linux                                                |                                            |  |
| <b>OS:</b>       | GNU/Linux -- 4.9.80-v7+ -- #1098 SMP Fri Mar 9 19:11:42 GMT 2018        |                                            |  |
| <b>Machine:</b>  | armv7l: unknown                                                         |                                            |  |
| <b>Language:</b> | en_US.utf8 (charmap="ANSI_X3.4-1968", collate="ANSI_X3.4-1968")         |                                            |  |
| <b>CPUs:</b>     | <b>0:</b>                                                               | ARMv7 Processor rev 4 (v7l) (0.0 bogomips) |  |
|                  | <b>1:</b>                                                               | ARMv7 Processor rev 4 (v7l) (0.0 bogomips) |  |
|                  | <b>2:</b>                                                               | ARMv7 Processor rev 4 (v7l) (0.0 bogomips) |  |
|                  | <b>3:</b>                                                               | ARMv7 Processor rev 4 (v7l) (0.0 bogomips) |  |
| <b>Uptime:</b>   | 20:06:53 up 2:08, 2 users, load average: 0.51, 0.43, 0.60; runlevel Mar |                                            |  |

## Benchmark Run: 4 CPUs; 1 parallel process

Time: 20:06:53 - 20:34:54; 28m 01s

### System Benchmarks

| Test                                  | Score     | Unit  | Time   | Iters. | Baseline | Index        |
|---------------------------------------|-----------|-------|--------|--------|----------|--------------|
| Dhrystone 2 using register variables  | 5070066.5 | lps   | 10.0 s | 7      | 116700.0 | 434.5        |
| Double-Precision Whetstone            | 1235.9    | MWIPS | 9.9 s  | 7      | 55.0     | 224.7        |
| Execl Throughput                      | 878.1     | lps   | 30.0 s | 2      | 43.0     | 204.2        |
| File Copy 1024 bufsize 2000 maxblocks | 146721.7  | KBps  | 30.0 s | 2      | 3960.0   | 370.5        |
| File Copy 256 bufsize 500 maxblocks   | 45663.9   | KBps  | 30.0 s | 2      | 1655.0   | 275.9        |
| File Copy 4096 bufsize 8000 maxblocks | 365083.0  | KBps  | 30.0 s | 2      | 5800.0   | 629.5        |
| Pipe Throughput                       | 360172.3  | lps   | 10.0 s | 7      | 12440.0  | 289.5        |
| Pipe-based Context Switching          | 65193.5   | lps   | 10.0 s | 7      | 4000.0   | 163.0        |
| Process Creation                      | 2615.6    | lps   | 30.0 s | 2      | 126.0    | 207.6        |
| Shell Scripts (1 concurrent)          | 2349.0    | lpm   | 60.0 s | 2      | 42.4     | 554.0        |
| Shell Scripts (8 concurrent)          | 621.7     | lpm   | 60.1 s | 2      | 6.0      | 1036.2       |
| System Call Overhead                  | 697049.2  | lps   | 10.0 s | 7      | 15000.0  | 464.7        |
| <b>System Benchmarks Index Score:</b> |           |       |        |        |          | <b>349.8</b> |

## Benchmark Run: 4 CPUs; 4 parallel processes

Time: 20:34:54 - 21:03:04; 28m 10s

### System Benchmarks

| Test                                  | Score      | Unit  | Time   | Iters. | Baseline | Index  |
|---------------------------------------|------------|-------|--------|--------|----------|--------|
| Dhrystone 2 using register variables  | 16390280.8 | lps   | 10.0 s | 7      | 116700.0 | 1404.5 |
| Double-Precision Whetstone            | 4875.6     | MWIPS | 9.6 s  | 7      | 55.0     | 886.5  |
| Execl Throughput                      | 2224.8     | lps   | 29.8 s | 2      | 43.0     | 517.4  |
| File Copy 1024 bufsize 2000 maxblocks | 238821.3   | KBps  | 30.0 s | 2      | 3960.0   | 603.1  |
| File Copy 256 bufsize 500 maxblocks   | 64338.2    | KBps  | 30.0 s | 2      | 1655.0   | 388.8  |
| File Copy 4096 bufsize 8000 maxblocks | 561052.1   | KBps  | 30.0 s | 2      | 5800.0   | 967.3  |
| Pipe Throughput                       | 1345332.5  | lps   | 10.0 s | 7      | 12440.0  | 1081.5 |
| Pipe-based Context Switching          | 206722.7   | lps   | 10.0 s | 7      | 4000.0   | 516.8  |
| Process Creation                      | 4855.5     | lps   | 30.0 s | 2      | 126.0    | 385.4  |
| Shell Scripts (1 concurrent)          | 4713.6     | lpm   | 60.0 s | 2      | 42.4     | 1111.7 |
| Shell Scripts (8 concurrent)          | 628.7      | lpm   | 60.2 s | 2      | 6.0      | 1047.9 |

|                                       |           |     |      |   |   |         |              |
|---------------------------------------|-----------|-----|------|---|---|---------|--------------|
| <b>System Call Overhead</b>           | 2567961.0 | lps | 10.0 | s | 7 | 15000.0 | 1712.0       |
| <b>System Benchmarks Index Score:</b> |           |     |      |   |   |         | <b>794.0</b> |

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