

rteval (v3.8) report

Test run: 2024-09-19 05:18:04
Loads: 3 loads run on cores 0-15
Measurement: measurement threads run on cores 0-15
Run time: 0 days 0h 0m 24s

Tested node: Cumhall
Model: LENOVO - 20Y4S1QE15
BIOS version: LENOVO (ver: N40ET31W (1.13), rev: 1.13, release date: 11/23/2021)

CPU cores: 16 (online: 16)
NUMA Nodes: 1
Memory: 63998.711 MB
Kernel: 6.8.9-100.fc38.x86_64
Base OS: Fedora release 38 (Thirty Eight)
Architecture: x86_64
Clocksource: tsc
Available: tsc acpi_pm
Tuned state: not present

System load:
Load average: 599.08

Executed loads:
- kcompile: taskset -c 0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 make
O=/home/jkacur/src/rteval/rteval-build/node0 -C /home/jkacur/src/rteval/rteval-
build/linux-6.6.1 -j48;
- hackbench: hackbench -P -g 48 -l 1000 -s 1000

Cmdline: BOOT_IMAGE=(hd0,gpt2)/vmlinuz-6.8.9-100.fc38.x86_64
root=/dev/mapper/fedora-root ro rd.lvm.lv=fedora/root rhgb quiet

Measurements:

Latency test

Started: 2024-09-19 05:18:17.640347
Stopped: 2024-09-19 05:18:37.723649
Command: cyclictst -i100 -qmu -h 10000 -p95 -t16 -a0-15

System: (16 cores) 11th Gen Intel(R) Core(TM) i7-11850H @ 2.50GHz

Statistics:

Samples: 3209888
Mean: 4.044421799140656us
Median: 4us
Mode: 3us
Range: 3289us
Min: 1us
Max: 3290us
Mean Absolute Dev: 1.3641387855993847us
Std.dev: 15.966331411121626us

CPU core 0 Priority: 95

Statistics:

Samples: 200626
Mean: 3.897934465124161us
Median: 3us
Mode: 3us

Range: 3190us
Min: 1us
Max: 3191us
Mean Absolute Dev: 1.2957013425392228us
Std.dev: 16.101905849394527us

CPU core 1 Priority: 95
Statistics:
Samples: 200623
Mean: 4.030210893068093us
Median: 4us
Mode: 3us
Range: 3202us
Min: 1us
Max: 3203us
Mean Absolute Dev: 1.3294051152152577us
Std.dev: 15.942046810717986us

CPU core 2 Priority: 95
Statistics:
Samples: 200623
Mean: 4.073192006898511us
Median: 4us
Mode: 3us
Range: 3194us
Min: 1us
Max: 3195us
Mean Absolute Dev: 1.3331092666595459us
Std.dev: 16.12290073734235us

CPU core 3 Priority: 95
Statistics:
Samples: 200630
Mean: 3.6723819967103624us
Median: 3us
Mode: 3us
Range: 3289us
Min: 1us
Max: 3290us
Mean Absolute Dev: 1.2979377767190818us
Std.dev: 16.10515231347092us

CPU core 4 Priority: 95
Statistics:
Samples: 200602
Mean: 4.217834318700711us
Median: 4us
Mode: 4us
Range: 2630us
Min: 1us
Max: 2631us
Mean Absolute Dev: 1.4592498029371805us
Std.dev: 15.143245857639531us

CPU core 5 Priority: 95
Statistics:
Samples: 200639
Mean: 4.126391180179327us
Median: 4us

Mode: 3us
Range: 3255us
Min: 1us
Max: 3256us
Mean Absolute Dev: 1.4016503301586754us
Std.dev: 15.423558680549098us

CPU core 6 Priority: 95

Statistics:
Samples: 200643
Mean: 4.213658089243084us
Median: 4us
Mode: 4us
Range: 3263us
Min: 1us
Max: 3264us
Mean Absolute Dev: 1.4242444263775462us
Std.dev: 15.756290858089352us

CPU core 7 Priority: 95

Statistics:
Samples: 200581
Mean: 4.091608876214597us
Median: 4us
Mode: 3us
Range: 3225us
Min: 1us
Max: 3226us
Mean Absolute Dev: 1.392762621162467us
Std.dev: 16.286826650385663us

CPU core 8 Priority: 95

Statistics:
Samples: 200625
Mean: 4.10557507788162us
Median: 4us
Mode: 3us
Range: 3243us
Min: 1us
Max: 3244us
Mean Absolute Dev: 1.3431288311130536us
Std.dev: 16.042753499914433us

CPU core 9 Priority: 95

Statistics:
Samples: 200636
Mean: 3.7653611515381087us
Median: 3us
Mode: 3us
Range: 3197us
Min: 1us
Max: 3198us
Mean Absolute Dev: 1.3268902126032562us
Std.dev: 16.091879714709066us

CPU core 10 Priority: 95

Statistics:
Samples: 200627
Mean: 4.051114755242315us

Median: 4us
Mode: 3us
Range: 3253us
Min: 1us
Max: 3254us
Mean Absolute Dev: 1.3823410873232507us
Std.dev: 16.042066114133082us

CPU core 11 Priority: 95
Statistics:
Samples: 200635
Mean: 3.9145064420465023us
Median: 3us
Mode: 3us
Range: 3190us
Min: 1us
Max: 3191us
Mean Absolute Dev: 1.3107841413291732us
Std.dev: 15.978673117693889us

CPU core 12 Priority: 95
Statistics:
Samples: 200610
Mean: 4.128896864563083us
Median: 4us
Mode: 3us
Range: 3238us
Min: 1us
Max: 3239us
Mean Absolute Dev: 1.467328147281498us
Std.dev: 16.17403643451964us

CPU core 13 Priority: 95
Statistics:
Samples: 200623
Mean: 4.150556018003917us
Median: 4us
Mode: 4us
Range: 3268us
Min: 1us
Max: 3269us
Mean Absolute Dev: 1.3567826540976051us
Std.dev: 15.82131791049845us

CPU core 14 Priority: 95
Statistics:
Samples: 200618
Mean: 4.212244165528517us
Median: 4us
Mode: 4us
Range: 3204us
Min: 1us
Max: 3205us
Mean Absolute Dev: 1.4034941665480802us
Std.dev: 15.971394573439877us

CPU core 15 Priority: 95
Statistics:
Samples: 200547

Mean: 4.059342697721731us
Median: 3us
Mode: 3us
Range: 3238us
Min: 1us
Max: 3239us
Mean Absolute Dev: 1.4694423044853993us
Std.dev: 16.400569867649622us

rteval (v3.8) report

Test run: 2024-09-19 05:54:06
Loads: 3 loads run on cores 0-15
Measurement: measurement threads run on cores 0-15
Run time: 0 days 0h 0m 24s

Tested node: Cumhall
Model: LENOVO - 20Y4S1QE15
BIOS version: LENOVO (ver: N40ET31W (1.13), rev: 1.13, release date: 11/23/2021)

CPU cores: 16 (online: 16)
NUMA Nodes: 1
Memory: 63998.711 MB
Kernel: 6.8.9-100.fc38.x86_64
Base OS: Fedora release 38 (Thirty Eight)
Architecture: x86_64
Clocksource: tsc
Available: tsc acpi_pm
Tuned state: not present

System load:
Load average: 410.74

Executed loads:
- kcompile: taskset -c 0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 make
0=/home/jkacur/src/rteval/rteval-build/node0 -C /home/jkacur/src/rteval/rteval-
build/linux-6.6.1 -j48;
- hackbench: hackbench -P -g 48 -l 1000 -s 1000

Cmdline: BOOT_IMAGE=(hd0,gpt2)/vmlinuz-6.8.9-100.fc38.x86_64
root=/dev/mapper/fedora-root ro rd.lvm.lv=fedora/root rhgb quiet

Measurements:

Latency test

Started: 2024-09-19 05:54:19.544797
Stopped: 2024-09-19 05:54:39.658807
Command: rtla timerlat hist -P f:95 -u -c0-15 -E10000

rtla timerlat hit stop tracing

System: (16 cores) 11th Gen Intel(R) Core(TM) i7-11850H @ 2.50GHz
CPU core 0 Priority: 95

Statistics:

Samples: 49305
Mean: 6.619450360004056us
Median: 5us
Mode: 0us
Range: 3041us

Min: 0us
Max: 3041us
Mean Absolute Dev: 4.910733925013717us
Std.dev: 56.499631461162075us

CPU core 1 Priority: 95

Statistics:
Samples: 49314
Mean: 5.458267429127631us
Median: 4us
Mode: 0us
Range: 2686us
Min: 0us
Max: 2686us
Mean Absolute Dev: 4.55623002071943us
Std.dev: 53.60651224750384us

CPU core 2 Priority: 95

Statistics:
Samples: 49314
Mean: 5.497059658514823us
Median: 4us
Mode: 0us
Range: 2884us
Min: 0us
Max: 2884us
Mean Absolute Dev: 4.351855327091584us
Std.dev: 51.43967292267115us

CPU core 3 Priority: 95

Statistics:
Samples: 49311
Mean: 5.349840806310965us
Median: 5us
Mode: 0us
Range: 2694us
Min: 0us
Max: 2694us
Mean Absolute Dev: 4.165708360314881us
Std.dev: 49.43123020823598us

CPU core 4 Priority: 95

Statistics:
Samples: 49299
Mean: 6.006815554068034us
Median: 5us
Mode: 0us
Range: 2964us
Min: 0us
Max: 2964us
Mean Absolute Dev: 4.735483732893592us
Std.dev: 57.31814923966416us

CPU core 5 Priority: 95

Statistics:
Samples: 49323
Mean: 5.069257749934108us
Median: 4us
Mode: 0us

Range: 2706us
Min: 0us
Max: 2706us
Mean Absolute Dev: 4.046057584374206us
Std.dev: 47.63584175685525us

CPU core 6 Priority: 95
Statistics:
Samples: 49311
Mean: 7.392204579099998us
Median: 6us
Mode: 0us
Range: 2838us
Min: 0us
Max: 2838us
Mean Absolute Dev: 5.4456409147707925us
Std.dev: 53.26261351118419us

CPU core 7 Priority: 95
Statistics:
Samples: 49305
Mean: 5.42628536659568us
Median: 4us
Mode: 0us
Range: 2748us
Min: 0us
Max: 2748us
Mean Absolute Dev: 4.329297947277946us
Std.dev: 52.692399192155264us

CPU core 8 Priority: 95
Statistics:
Samples: 49308
Mean: 5.581183580757687us
Median: 4us
Mode: 0us
Range: 3028us
Min: 0us
Max: 3028us
Mean Absolute Dev: 4.235283724327219us
Std.dev: 52.148899678582524us

CPU core 9 Priority: 95
Statistics:
Samples: 49305
Mean: 5.902200588175641us
Median: 4us
Mode: 0us
Range: 2766us
Min: 0us
Max: 2766us
Mean Absolute Dev: 4.878257883351537us
Std.dev: 55.512806797593086us

CPU core 10 Priority: 95
Statistics:
Samples: 49308
Mean: 5.920134663746248us
Median: 5us

Mode: 0us
Range: 2856us
Min: 0us
Max: 2856us
Mean Absolute Dev: 4.528500311102103us
Std.dev: 51.48093790104361us

CPU core 11 Priority: 95
Statistics:
Samples: 49305
Mean: 6.155927390731163us
Median: 5us
Mode: 0us
Range: 2778us
Min: 0us
Max: 2778us
Mean Absolute Dev: 4.574050116207615us
Std.dev: 51.96620943042245us

CPU core 12 Priority: 95
Statistics:
Samples: 49299
Mean: 6.40378100975679us
Median: 5us
Mode: 0us
Range: 2917us
Min: 0us
Max: 2917us
Mean Absolute Dev: 4.734000917410268us
Std.dev: 54.21048937247066us

CPU core 13 Priority: 95
Statistics:
Samples: 49308
Mean: 6.617668532489657us
Median: 6us
Mode: 0us
Range: 2857us
Min: 0us
Max: 2857us
Mean Absolute Dev: 4.792668225984324us
Std.dev: 52.268819525007295us

CPU core 14 Priority: 95
Statistics:
Samples: 49308
Mean: 5.34000567859171us
Median: 4us
Mode: 0us
Range: 2900us
Min: 0us
Max: 2900us
Mean Absolute Dev: 4.259580567801131us
Std.dev: 49.11476583252485us

CPU core 15 Priority: 95
Statistics:
Samples: 49302
Mean: 6.42657498681595us

Median:	5us
Mode:	0us
Range:	2799us
Min:	0us
Max:	2799us
Mean Absolute Dev:	4.665334990589777us
Std.dev:	51.08651570228399us