

board test

date & test version:

date [<date>]

test version [v0.2.0]

system:

core [<core>]

cpu [<cpu>]

#n cpus [<#count>]

frequency [<cpu_freq>]

board [<board>]

versions:

linux [<#linux>+<#patch_id>]

rtai [<#rtai>+<#patch_id>]

gcc [<#gcc>]

toolchain [<toolchain>]

patch, configure, compile

linux:

1 linux patch [PASSED/FAILED]

1.1 successful hunks [<#count>]

1.2 failed hunks [<#count>]

1.3 configure [PASSED/BLOCKED/FAILED]

1.4 compile [PASSED/BLOCKED/FAILED]

rtai:

2 rtai patch [INTEGRATED/PASSED/FAILED]

2.1 successful hunks [<#count>]

2.2 failed hunks [<#count>]

2.3 configure [PASSED/BLOCKED/FAILED]

2.4 compile [PASSED/BLOCKED/FAILED]

basic tests

loading/unloading kernel modules:

(modules: rtai_hal.ko sched|lxrt msg sem mbx fifos shm)

3.1 kernel modules

3.1.1 load/unload (sched) [PASSED/FAILED]

3.1.2 load/unload (sched) [PASSED/BLOCKED/FAILED]

3.1.3 load/unload (lxrt) [PASSED/BLOCKED/FAILED]

3.1.4 load/unload (lxrt) [PASSED/BLOCKED/FAILED]

latency test:

(rtai_sched.ko, period: 1ms, sysload: dd /dev/urandom /dev/null)

3.2 latency: idle system

3.2.1 kernelspace, oneshot [PASSED/BLOCKED/FAILED]

3.2.2 kernelspace, periodic [PASSED/BLOCKED/FAILED]

3.2.3 userspace, oneshot [PASSED/BLOCKED/FAILED]

3.2.4 userspace, periodic [PASSED/BLOCKED/FAILED]

3.3 latency: system under load

3.3.1 kernelspace, oneshot [PASSED/BLOCKED/FAILED]

3.3.2 kernelspace, periodic [PASSED/BLOCKED/FAILED]

3.3.3 userspace, oneshot [PASSED/BLOCKED/FAILED]

3.3.4 userspace, periodic [PASSED/BLOCKED/FAILED]

preempt test:

(rtai_sched.ko, sysload: dd /dev/urandom /dev/null)

3.4 preempt: idle system

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3.4.1 kernelspace      [PASSED/BLOCKED/FAILED]
3.4.3 userspace        [PASSED/BLOCKED/FAILED]
3.5   preempt: system under load
3.5.1 kernelspace      [PASSED/BLOCKED/FAILED]
3.5.3 userspace        [PASSED/BLOCKED/FAILED]

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switch test:
(rtai_sched.ko, sysload: dd /dev/urandom /dev/null)
3.6   switch: idle system
3.6.1 kernelspace      [PASSED/BLOCKED/FAILED]
3.6.3 userspace        [PASSED/BLOCKED/FAILED]
3.6   switch: system under load
3.7.1 kernelspace      [PASSED/BLOCKED/FAILED]
3.7.3 userspace        [PASSED/BLOCKED/FAILED]

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latency test, 12h (user/oneshot/load):
3.8   latency: 12h     [PASSED/BLOCKED/FAILED]

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performance

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3.2/3.3 latency test      [min___][avg___][max___]
-----
idle kernelspace oneshot  [_____] [_____] [_____] / [BLOCKED/FAILED]
idle kernelspace periodic [_____] [_____] [_____] / [BLOCKED/FAILED]
idle userspace  oneshot  [_____] [_____] [_____] / [BLOCKED/FAILED]
idle userspace  periodic [_____] [_____] [_____] / [BLOCKED/FAILED]
load kernelspace oneshot  [_____] [_____] [_____] / [BLOCKED/FAILED]
load kernelspace periodic [_____] [_____] [_____] / [BLOCKED/FAILED]
load userspace  oneshot  [_____] [_____] [_____] / [BLOCKED/FAILED]
load userspace  periodic [_____] [_____] [_____] / [BLOCKED/FAILED]

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3.4/3.5 preempt test      [min___][avg___][max___][j-fast][j-slow]
-----
idle kernelspace          [_____] [_____] [_____] [_____] [_____] / [BLOCKED/FAILED]
idle userspace            [_____] [_____] [_____] [_____] [_____] / [BLOCKED/FAILED]
load kernelspace          [_____] [_____] [_____] [_____] [_____] / [BLOCKED/FAILED]
load userspace            [_____] [_____] [_____] [_____] [_____] / [BLOCKED/FAILED]

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3.6 switch test           [susp/res][sem:sig/wait][rpc:rcv-ret]
-----
idle kernelspace          [_____] [_____] [_____] / [BLOCKED/FAILED]
idle userspace            [_____] [_____] [_____] / [BLOCKED/FAILED]
load kernelspace          [_____] [_____] [_____] / [BLOCKED/FAILED]
load userspace            [_____] [_____] [_____] / [BLOCKED/FAILED]

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3.8 latency test, 12h     [min___][avg___][max___]
-----
load userspace oneshot    [_____] [_____] [_____] / [BLOCKED/FAILED]

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