

KernelCI in the cloud

Testing the kernel where the fleet runs

Norbert Manthey & Stanislav Uschakow

AWS



Customer caught regression

- A stable-kernel update 5.10.237 → 5.10.239
 - regressed process fork & teardown
 - multi-process DB ~1.2 TB in 2 MB hugepages
 - bursty forks
- AWS reported bug & Oracle confirmed

Outline

KernelCI today

Testing the kernel on AWS

Outlook

Discussion

KernelCI today



KernelCI today and why cloud

- Community CI: build & boot upstream, many labs & arches
- AWS lab: pull mode, real EC2
 - functional signal, not yet "is it slower?"
- Any size on demand; x86_64 & Graviton side by side
- Nested KVM → kvm-unit-tests
- spin up / tear down per run

Outlook



Outlook

- Contribute benchmarks and coverage ([unixbench✓](#), [pgbench #31](#), ...)
- Signal to developers via A/B performance testing
 - HEAD vs previous minor release
 - Challenges when testing in VMs
- Run it yourself (your host, or your AWS account)

A signal acted on

Re: [REGRESSION] stable-rc/ x +

lore.kernel.org/all/2026-09-17-daily-reply-0003-kernelci-6-1-is-core-idle@kernel.org/ 190% Search

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From: Sasha Levin <sashal@kernel.org>
To: kernelci-results@groups.io
Cc: Sasha Levin <sashal@kernel.org>, stable@vger.kernel.org, KernelCI bot <bot@kernelci.org>
Subject: Re: [REGRESSION] stable-rc/linux-6.1.y: (build)implicit declaration of function 'is_core_idle' [-Werror=implicit-f...
Date: Thu, 17 Sep 2026 20:52:30 -0400 [thread overview]
Message-ID: <2026-09-17-daily-reply-0003-kernelci-6-1-is-core-idle@kernel.org> (raw)
In-Reply-To: <178964994370.141985.11043353739859044931@kernelci.org>

> kernel/sched/fair.c:9912:53: error: implicit declaration of function 'is_core_idle' [-Werror=implicit-function-declaration]
> 9912 | env->dst_core_idle = !sched_smt_active() || is_core_idle(env->dst_cpu);

This comes from the 6.1 backport of bf6aa722198d ("sched/fair: Reject misfit pulls onto busy SMT siblings on asym-capacity"). On 6.1 is_core_idle() is defined inside the CONFIG_NUMA_BALANCING block, while update_sd_lb_stats() sits outside it, so the new call does not compile with NUMA balancing off.

The backport is dropped from 6.1. 6.6 and newer keep the fix, where is_core_idle() is not inside that block.

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Thanks,
Sasha

prev parent reply other threads:[~2026-09-18 0:52 UTC|newest]

Thread overview: 2+ messages / expand[flat|nested] mbox.gz Atom feed top
2026-09-17 12:59 [REGRESSION] stable-rc/linux-6.1.y: (build)implicit declaration of function 'is_core_idle' [-Werror=implicit-f
KernelCI bot

Discussion: how to provide value

- 1) How must the signal look to be respected?
- 2) What is missing to make testing more useful to you?
- 3) What additional tests should be executed?
- 4) Would a performance pass/fail be a quick win?
- 5) Would a dashboard help, e.g. 6.18 vs 7.4?

Thank you!

Norbert
Manthey

nmanthey@amazon.de



Stanislav
Uschakow

suschako@amazon.de

