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commit1053dcf8a504d4933bb3f73df22bc363298d194b(patch)

tree0f98bd5248f699ef200768cfa93f2c946c8a613e

parent92d55d7051833116af0fc8664599f458e3dfa858(diff)

downloadlinux-1053dcf8a504d4933bb3f73df22bc363298d194b.tar.gz

diff options

context:

3

space:

include

mode:

unified

cpufreq: apple-soc: Fix null-ptr-deref in apple_soc_cpufreq_get_rate()

[Upstream commit 9992649f6786921873a9b89dafa5e04d8c5fef2b]

cpufreq_cpu_get_raw() can return NULL when the target CPU is not present in the policy->cpus mask. apple_soc_cpufreq_get_rate() does not check for this case, which results in a NULL pointer dereference.

Fixes: 6286bbb40576 ("cpufreq: apple-soc: Add new driver to control Apple SoC CPU P-states")
Signed-off-by: Henry Martin <bsdhenrymartin@gmail.com>
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Diffstat

-rw-r--r--	drivers/cpufreq/apple-soc-cpufreq.c	10
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1 files changed, 8 insertions, 2 deletions

```
diff --git a/drivers/cpufreq/apple-soc-cpufreq.c b/drivers/cpufreq/apple-soc-cpufreq.c
index 021f423705e1b1..9ba6b09775f617 100644
--- a/drivers/cpufreq/apple-soc-cpufreq.c
+++ b/drivers/cpufreq/apple-soc-cpufreq.c
@@ -103,11 +103,17 @@ static const struct of_device_id apple_soc_cpufreq_of_match[] = {

static unsigned int apple_soc_cpufreq_get_rate(unsigned int cpu)
{
-    struct cpufreq_policy *policy = cpufreq_cpu_get_raw(cpu);
-    struct apple_cpu_priv *priv = policy->driver_data;
+    struct cpufreq_policy *policy;
+    struct apple_cpu_priv *priv;
    struct cpufreq_frequency_table *p;
    unsigned int pstate;

+    policy = cpufreq_cpu_get_raw(cpu);
+    if (unlikely(!policy))
+        return 0;
+
+    priv = policy->driver_data;
+
    if (priv->info->cur_pstate_mask) {
        u64 reg = readq_relaxed(priv->reg_base + APPLE_DVFS_STATUS);
```