author	Henry Martin <bsdhenrymartin@gmail.com>	2025-04-08 23:03:53 +0800
committer	Greg Kroah-Hartman <gregkh@linuxfoundation.org>	2025-05-02 07:58:59 +0200
commit	7ccfadfb2562337b4f0462a86a9746a6eea89718 (patch)	
tree	3c153b03af88ad5e8a39ce4bb619b23bd9a5ae5d	
parent	fbdba5f37413dbc09d82ad7235e5b7a2fb8e0f75 (diff)	
download	linux-7ccfadfb2562337b4f0462a86a9746a6eea89718.tar.gz	

cpufreq: scmi: Fix null-ptr-deref in scmi_cpufreq_get_rate()

```
[ Upstream commit 484d3f15cc6cbaa52541d6259778e715b2c83c54 ]

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

Add NULL check after cpufreq_cpu_get_raw() to prevent this issue.

Fixes: 99d6bdf33877 ("cpufreq: add support for CPU DVFS based on SCMI message protocol")
Signed-off-by: Henry Martin <bsdhenrymartin@gmail.com>
Acked-by: Sudeep Holla <sudeep.holla@arm.com>
Signed-off-by: Viresh Kumar <viresh.kumar@linaro.org>
Signed-off-by: Sasha Levin <sashal@kernel.org>
```

Diffstat

-rw-r--r--	drivers/cpufreq/scmi-cpufreq.c	10

1 files changed, 8 insertions, 2 deletions

```
diff --git a/drivers/cpufreq/scmi-cpufreq.c b/drivers/cpufreq/scmi-cpufreq.c
index 07d6f9a9b7c820..7e7c1613a67c6d 100644
--- a/drivers/cpufreq/scmi-cpufreq.c
+++ b/drivers/cpufreq/scmi-cpufreq.c
@@ -34,11 +34,17 @@ static struct cpufreq_driver scmi_cpufreq_driver;

 static unsigned int scmi_cpufreq_get_rate(unsigned int cpu)
 {
-       struct cpufreq_policy *policy = cpufreq_cpu_get_raw(cpu);
-       struct scmi_data *priv = policy->driver_data;
+       struct cpufreq_policy *policy;
+       struct scmi_data *priv;
        unsigned long rate;
        int ret;

+       policy = cpufreq_cpu_get_raw(cpu);
+       if (unlikely(!policy))
+               return 0;
+
+       priv = policy->driver_data;
+
        ret = perf_ops->freq_get(ph, priv->domain_id, &rate, false);
```

```
	if (ret)
		return 0;
```