

# Monitoring and alerting | Raspberry Pi CPU temperature

This is a bare copy of [https://github.com/dbrgn/collectd-python-plugins/blob/master/cpu\\_temp.py](https://github.com/dbrgn/collectd-python-plugins/blob/master/cpu_temp.py)

## /opt/collectd\_plugins/cpu\_temp.py

```
import collectd

PATH = '/sys/class/thermal/thermal_zone0/temp'

def config_func(config):
    path_set = False

    for node in config.children:
        key = node.key.lower()
        val = node.values[0]

        if key == 'path':
            global PATH
            PATH = val
            path_set = True
        else:
            collectd.info('cpu_temp plugin: Unknown config key "%s"' % key)

    if path_set:
        collectd.info('cpu_temp plugin: Using overridden path %s' % PATH)
    else:
        collectd.info('cpu_temp plugin: Using default path %s' % PATH)

def read_func():
    # Read raw value
    with open(PATH, 'rb') as f:
        temp = f.read().strip()

    # Convert to degrees celsius
```

```
deg = float(int(temp)) / 1000

# Dispatch value to collectd
val = collectd.Values(type='temperature')
val.plugin = 'cpu_temp'
val.dispatch(values=[deg])

collectd.register_config(config_func)
collectd.register_read(read_func)
```

## Configure collectd

```
<Plugin python>
  ModulePath "/opt/collectd_plugins"
  Import "cpu_temp"
  <Module cpu_temp>
    </Module>
</Plugin>
```

## Grafana query from InfluxDB

```
SELECT last(value) FROM "cpu_temp_value" WHERE "type" = 'temperature' AND "host" =~ /^$host$/
AND $timeFilter GROUP BY time($interval)
```

The CPU temperature is also monitored by [Repetier Server integrated monitoring](#)

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Version #1

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