

Fan Control

Fan PWM driver configuration path on Debian for Nuvotron 6775 is:

/sys/devices/platform/nct6775.2592/hwmon/hwmon1.

```
pwm[1-*]      Pulse width modulation fan control.
               Integer value in the range 0 to 255
               RW
               255 is max or 100%.

pwm[1-*]_enable
               Fan speed control method:
               0: no fan speed control (i.e. fan at full speed)
               1: manual fan speed control enabled (using pwm[1-*])
               2+: automatic fan speed control enabled
               Check individual chip documentation files for automatic mode
               details.
               RW

pwm[1-*]_mode  0: DC mode (direct current)
               1: PWM mode (pulse-width modulation)
               RW

pwm[1-*]_freq  Base PWM frequency in Hz.
               Only possibly available when pwmN_mode is PWM, but not always
               present even then.
               RW

pwm[1-*]_auto_channels_temp
               Select which temperature channels affect this PWM output in
               auto mode. Bitfield, 1 is temp1, 2 is temp2, 4 is temp3 etc...
               Which values are possible depend on the chip used.
               RW

pwm[1-*]_auto_point[1-*]_pwm
pwm[1-*]_auto_point[1-*]_temp
pwm[1-*]_auto_point[1-*]_temp_hyst
               Define the PWM vs temperature curve. Number of trip points is
               chip-dependent. Use this for chips which associate trip points
               to PWM output channels.
               RW

temp[1-*]_auto_point[1-*]_pwm
temp[1-*]_auto_point[1-*]_temp
temp[1-*]_auto_point[1-*]_temp_hyst
               Define the PWM vs temperature curve. Number of trip points is
               chip-dependent. Use this for chips which associate trip points
               to temperature channels.
               RW
```

There is a third case where trip points are associated to both PWM output channels and temperature channels: the PWM values are associated to PWM output channels while the temperature values are associated to temperature channels. In that case, the result is determined by the mapping between temperature inputs and PWM outputs. When several temperature inputs are mapped to a given PWM output, this leads to several candidate PWM values. The actual result is up to the chip, but in general the highest candidate value (fastest fan speed) wins.

Links

- [Nuvotron 6775](#)
- [PWM kernel documentation](#)
- [Control Script](#)

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