



Examples/Example 3:Extending SNMP

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Table of Contents

SNMP/Examples/Example 3:Extending SNMP.....	1
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SNMP can be extended by inserting the output of a command into the tree. This allows you to write scripts to fetch any information you like and monitor that data similar to interface statistics, RAM usage, and CPU load.

This example feeds voltage, CPU fan speed, and CPU temperature information into the SNMP tree at OID .1.3.6.1.4.1.2021.54. First save the following to /root/bin/snmpsensors.

```
#!/bin/bash
Start sensors >/dev/null 2>&1
sensors -c /usr/share/etc/sensors.conf >/dev/null 2>&1
fields="$(sensors -c /usr/share/etc/sensors.conf|grep -vi isa |cut -f 2 -d : | awk '{print $1}')"
for f in $fields ; do
    echo $f 1 '*' | dc
done
Stop sensors>/dev/null 2>&1
```

Then run `chmod 755 /root/bin/snmpsensors` Last, add `exec .1.3.6.1.4.1.2021.54 sensors /root/bin/snmpsensors` to your SNMP configuration and restart SNMP.

The output of `snmpwalk` looks like this:

```
rjune@rjune-desktop:~$ snmpwalk -v 2c -c public gw01 .1.3.6.1.4.1.2021.54
UCD-SNMP-MIB::ucdavis.54.1.1 = INTEGER: 1
UCD-SNMP-MIB::ucdavis.54.2.1 = STRING: "sensors"
UCD-SNMP-MIB::ucdavis.54.3.1 = STRING: "/root/bin/snmpsensors"
UCD-SNMP-MIB::ucdavis.54.100.1 = INTEGER: 0
UCD-SNMP-MIB::ucdavis.54.101.1 = STRING: "1.76"
UCD-SNMP-MIB::ucdavis.54.101.2 = STRING: "3.5"
UCD-SNMP-MIB::ucdavis.54.101.3 = STRING: "4.8"
UCD-SNMP-MIB::ucdavis.54.101.4 = STRING: "12.16"
UCD-SNMP-MIB::ucdavis.54.101.5 = STRING: "5.26"
UCD-SNMP-MIB::ucdavis.54.101.6 = STRING: "3.34"
UCD-SNMP-MIB::ucdavis.54.101.7 = STRING: "8035"
UCD-SNMP-MIB::ucdavis.54.101.8 = STRING: "35"
UCD-SNMP-MIB::ucdavis.54.101.9 = STRING: "1.75"
UCD-SNMP-MIB::ucdavis.54.102.1 = INTEGER: 0
UCD-SNMP-MIB::ucdavis.54.103.1 = ""
```

