



# AMD Power Monitor for Linux<sup>®</sup>

Version 1.0.4

## Introduction

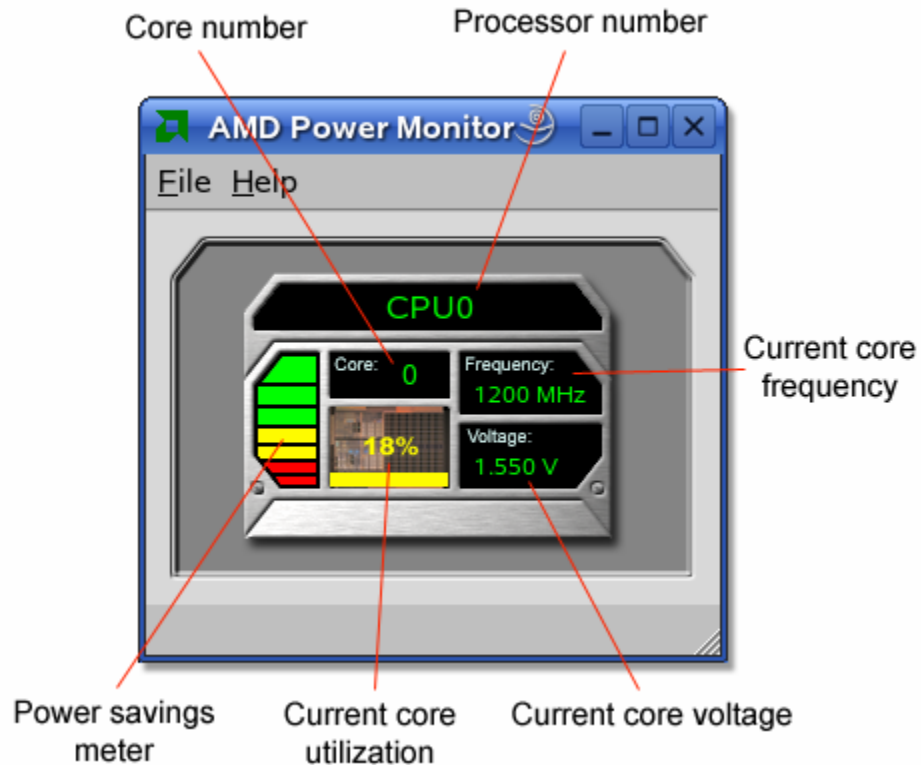
AMD Power Monitor displays processor power utilization for each processor and core. The utility displays information about the processor, core, core frequency, voltage, core utilization, and power savings as shown in the following table.

Field Name	Description
Processor number	The processor number starting with zero.
Core number	The core number starting with zero.
Current core frequency	The current operating frequency of the core.
Current core voltage	The current operating voltage of the core.
Current core utilization	The percentage of utilization of the current core.
Power savings meter	The current power savings of the core. Higher bar graph readings represent more power savings, and lower bar graph readings represent minimum power savings. Power savings are usually realized when the frequency is lower.

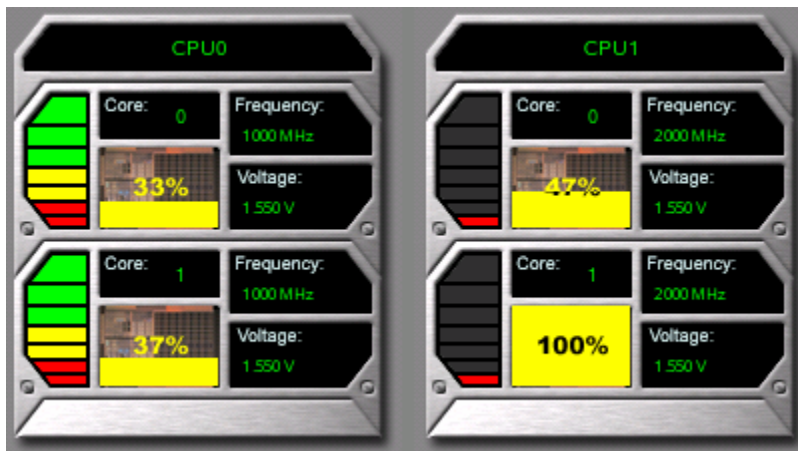
The utility is designed for use with single and multiprocessor systems, including single-core and dual-core AMD64 processors, that use AMD PowerNow!<sup>™</sup> technology or Cool'n'Quiet<sup>™</sup> technology running Linux<sup>®</sup>.

## Using AMD Power Monitor

AMD Power Monitor displays processor information automatically as shown in the following figure.



Multiprocessor systems display a window for each processor as shown in the following figure.



Hovering the mouse over the processor number (CPU0 in the figure below) displays a pop-up showing the processor name.

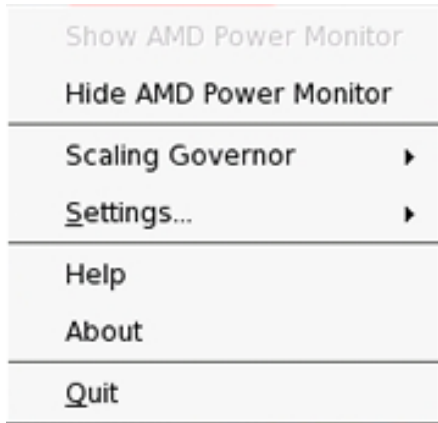


An icon appears in the status area showing system loading.




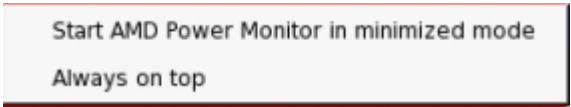
As system loading increases the bar displays higher. For multi-core or multiprocessor systems, the bar represents the average of all core utilization.

Right-click on the icon to display AMD Power Monitor menu options.



The following table describes the menu options.

Menu Options	Description
Show AMD Power Monitor	Displays the AMD Power Monitor application if it is currently hidden.
Hide AMD Power Monitor	Hides the AMD Power Monitor application. This command is also available by choosing <b>File &gt; Hide</b> .
Scaling Governor	<p>The scaling governor is a processor frequency policy agent that follows certain rules for changing the performance states of the processor.</p> <p>The menu displays the following options:</p>  <p>The <b>ondemand</b> option adjusts the processor frequency according to the processor utilization.</p> <p>The <b>userspace</b> option allows the user to adjust the processor frequency.</p> <p>The <b>powersave</b> option sets the processor frequency to minimum.</p>

Menu Options	Description
	<p>The <b>Performance</b> option sets the processor frequency to maximum.</p> <p>The <b>Refresh Available Scaling Governor</b> option refreshes the list of available scaling governors. Use this option when a scaling governor is dynamically loaded or unloaded as a kernel module.</p>
Settings	<p>Displays the following options:</p>  <p>Choose <b>Start AMD Power Monitor in minimized mode</b> to start the utility minimized.</p> <p>Choose <b>Always on top</b> to continuously display AMD Power Monitor on top of other open windows.</p>
Help	Opens the online help.
About	Displays version information.
Minimize	Minimizes the program.
Quit	Closes the application.

## Technical Support

### Problem Report

If you find a problem, we ask that you please e-mail the following information to [debug.tools@amd.com](mailto:debug.tools@amd.com):

- Describe the problem or issue.
- Describe why you believe this is a problem.
- Describe your proposed solution, change, or improvement.
- Briefly describe the steps or sequence of events that led to your observation.
- How frequently did the problem occur?
- What messages did the utility display?
- Which version of the utility are you using? This information is in the **Help > About** dialog box.

- What operating system and service pack are you using?
- How much free disk space do you have?
- Describe your system in regards to the following:
  - Processor type and speed
  - Motherboard make and model
  - System memory size
  - Video graphics card make and model
  - Video screen resolution (for example, 1024x768x16 bpp)
  - Other installed Input/Output cards (for example sound cards, other PCI cards)

### **Enhancement Request**

Please e-mail the following information about a desired enhancement or change to [debug.tools@amd.com](mailto:debug.tools@amd.com):

- Which version of the utility are you using? This information is in the **Help > About** dialog box.
- Describe the desired enhancement or change.
- Indicate to us how important the enhancement or change is to you using a scale of 1 to 5, where 1 is most important and 5 least important.

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