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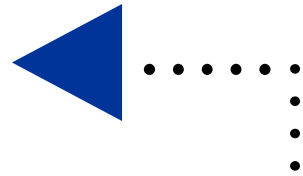
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**Vermont Computing, Inc.**  
23 Merchants Row  
Randolph, VT 05060  
Tel: (802) 728-9217

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**Vol 7 Issue 7  
April Part 1  
Newsletter**

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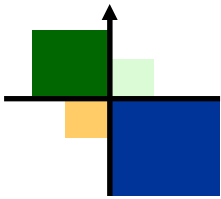
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## COMPUTER TALK

### AMD Launches 3.0GHz Opteron Processors

<http://www.extremetech.com/article2/0,1697,2111725,00.asp>

Advanced Micro Devices is rolling out some additions to its Opteron family of dual-core processors that will now run at a clock speed of 3.0GHz.

On April 4, AMD launched the Opteron 2222 SE model for two-way systems and the 8222 SE model for four- and eight-way servers. The two new models will both run at 3.0GHz and offer 2MB of Level 2 cache and the same integrated memory controller and HyperTransport technology (a high-speed chip-to-chip interconnect) as other processors in that series.

Pat Patla, director of AMD's Opteron marketing, said the Sunnyvale, Calif., company has been shipping some of these faster-running chips to OEMs for the past few months and the processors will become widely available within two weeks.

Along with the additions to the Opteron lineup, AMD executives were touting the results of several new benchmark tests that, according to the company, show that these chips outperform Intel's Xeon processors.

...What this latest salvo also indicates is that the rivalry between AMD and Intel shows no sign of letting up anytime soon.

According to a Jan. 31 report by Mercury Research, AMD added to its market share of the overall x86 space in 2006, with the majority of gains being from among its notebook and desktop products.

Although it lost market share to its smaller rival, Intel managed to gain back some of its server share. In the meantime, the Santa Clara, Calif., company has been pushing hard to promote its quad-core Xeon processors.

AMD, which has claimed all along that it owns a more elegant quad-core design, will release its quad-core Opteron, dubbed "Barcelona," later in 2007.

AMD's ongoing price war with Intel has also affected its bottom line. When it released its fourth quarter financial results on Jan. 23, the company watched its gross margins slip as sales of its server processors slowed.

In a April 4 research note to investors, Joe Osha, an analyst with Merrill Lynch, wrote that AMD needs to continue to press its advantage in the desktop space, especially since it announced that it would produce processors using a 65-nanometer manufacturing process...

### Home Water Heater Generates Electricity, Too

<http://www.extremetech.com/article2/0,1697,2111126,00.asp>

Feeling the crunch from exorbitant heating bills? Want to save money and remain in Al Gore's good graces? On Tuesday, Honda and Climate Energy announced the freewatt micro-CHP (combined heat and power) cogeneration system for homes, which the companies claim will save customers some cash on their heating bills as well as retain a small environmental footprint.



The freewatt system includes a cogeneration unit developed by Honda that produces 3.26 kilowatts of heat and 1.2 kilowatts of electric power, and can be paired with either a furnace or boiler produced by Climate Energy.

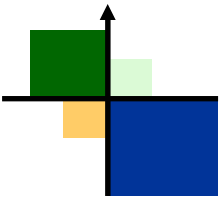
According to both companies, the micro-CHP approach to delivering energy to homes can reduce overall energy usage as well as lower the impacts on the environment by actually using the fuel used to heat a typical home twice.

In essence, the electric power produced by the system is a by-product of its own heating functionality. That electric power displaces the electricity that consumers would otherwise purchase from a local electric utility provider, Climate Energy said.

This can save the average homeowner \$500 to \$1,000 per year on their electric bills, both companies said. What's more, when a customer replaces his or her typical 80 percent efficiency home heating system with a freewatt system, that they can still see an average of 30 percent cost savings.

Additional savings can also come from utilizing the freewatt system in conjunction with net metering, which is a simplified method of metering the energy consumed and produced at a home or business with its own renewable energy generator. Although only available in certain states, net metering allows homeowners to sell unused electric power back to the grid in their communities.

(Continued on page 3)



## A BIT OF ADVICE

### Forcing Windows XP's Disk Cleanup to delete all temporary files

[Http://www.techrepublic.com/](http://www.techrepublic.com/)

If you've ever run the Windows XP's Disk Cleanup utility, you probably discovered that your temporary files occupy a significant amount of space. You might select the Temporary Files check box in order to allow the Disk Cleanup utility to delete the files in the Temp folder, but the Disk Cleanup utility will not remove all of the files. The reason for this oddity is that the configuration for the Disk Cleanup utility does not allow deletion of files accessed in the last seven days.

By altering the LastAccess value in the registry, you can configure the Disk Cleanup utility to delete all the files in the Temp folder regardless of the last accessed date. Here's how:

Launch the Registry Editor (Regedit.exe).

Go to

(Continued from page 2) ...While pricing was not announced on Tuesday, the freewatt system for Massachusetts customers has a list price of \$13,500, according to Climate Energy's Web site.

Climate Energy says it's installing warm air systems now and will be adding to its product line with new models throughout 2007. For now, initial sales of the heat and power units will be targeted at customers living in the Northeastern U.S. due mainly to the region's greater heating demands, the companies said.

#### **Embedded Chipset Fills Out AMD Portfolio**

<http://www.internetnews.com/dev-news/article.php/3669081>

AMD has added the final piece to its embedded lineup of products with the announcement today of the AMD M690 chipset. The chipmaker has long offered embedded processors, but the M690 adds graphics processing and connectivity for a complete, single vendor solution.

AMD (Quote) will make the formal announcement at the Embedded Systems Conference today in San Jose, Calif. AMD has already disclosed the Socket S1 and M690 boards for embedded developers.

AMD has made a major push into embedded in recent months, with the Socket S1, Turion, Sempron, Athlon and even Opteron processors. But AMD's embedded story was by and large just processors.

"In the past, AMD always used to say 'We allow our customers to buy best of breed product,' but they were saying that because they didn't have a chipset," Greg Quick, systems analyst with the 451 Group told internetnews.com. "Intel has long had chipsets and integrated graphics, so this really levels the playing field for AMD."

Jeff Chu, division marketing manager for AMD's embedded solutions group, admits this fills a need in the company's product line.

HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\VolumeCaches\Temporary Files.

Locate and double-click the LastAccess value.

When you see the Edit DWORD Value dialog box, change the Value Data setting from 7 to 0 and click OK.

To complete the operation, close the Registry Editor and restart Windows XP.

Changing the value to 0 will force the Disk Cleanup utility to delete all the files in the Temp folder every time that you select the Temporary Files check box.

Notes: Since editing the registry is risky, be sure you have a verified backup before saving any changes. This tip applies to both Windows XP Home and Windows XP Professional. —END

"In that in the past, we've said there are different chipsets to choose from, but we've had a lot of customer demand to be a one stop shop to provide everything, and with the acquisition of ATI, we can," he told internetnews.com.

The 690 chipset, developed by ATI, was announced last month. It integrates PCI and PCI Express expansion slots, USB 2.0, display options, high-definition audio, and gigabit Ethernet.

The graphics engine is provided by the Radeon 1250 processor, a fair but far from cutting edge chip. It's enough to qualify the 690 as an acceptable chip for Vista Ultimate and the advanced Aero interface.

AMD expects the 690 will be ideal for some of the more advanced embedded markets, such as point-of-sale systems, digital signs and medical systems. It uses the Hypertransport interface, the same one AMD uses in its processors, allowing it to move data around very fast.

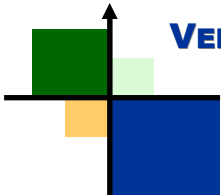
#### **AI Gore: Embedded Tech Can Help Heal the Earth**

<http://www.extremetech.com/article2/0,1697,2111131,00.asp>

Former Vice President AI Gore told Embedded Systems Conference keynote attendees in San Jose, Calif. today that energy-efficient IT systems of the future - many containing embedded processors - will be a major factor in helping overcome the climate problems the Earth is now facing.

"Embedded systems can be the key part of this," the self-styled "recovering politician" Gore told an audience of about 3,000 at the San Jose McEnery Convention Center Civic Auditorium this morning. "We are now embedding more and more intelligence into everything - with the exception of public policy," he joked.

Change is going to come in the millions and billions of embedded systems that will bring higher levels of performance and lower levels of power consumption to everything we do, Gore said.



# SHUTDOWN

## Windows XP Error Codes

<http://chris.pirillo.com/2002/01/15/windows-xp-error-codes/>

Ever get an error code in Windows and wonder what it means? Well, this list won't help you, but it's funny so enjoy!

- 000** - Unexpected Intelligent User Detected; Please Reload Everything
- 001** - Intimidation Failed; Attempting to Crash Repeatedly
- 002** - Erroneous Error; No Error Occurred (Yet)
- 003** - RAM Depleted; Annex Japan (Y/N)?
- 004** - Deluxe Error. Please Send \$75 to Upgrade Your Error
- 005** - Long File Name Error; Tape Erased to Make Room for Filename
- 006** - Insufficient RAM to Crash Properly; Attempting Fake Crash
- 007** - Alphanumeric Sequence "OS2" Prohibited
- 008** - This License Has Expired; Please Purchase Another Copy
- 009** - Error Buffer Overflow; Too Many Errors
- 00A** - Non-Microsoft Application Encountered
- 00B** - Push Error; Removing Files to Make Room for Advertisement
- 00C** - Windows Loaded Correctly This Time
- 00D** - User Error; Lemming Not Found
- 00E** - Open Standard Encountered; Attempting to Redmondize
- 00F** - Reserved for Future Coding Errors
- 010** - Virus Error - Other Applications Will Be Closed Instead
- 011** - Orwell Not Found; You Must Use MSN
- 012** - Cash Underflow - Credit Card Number Will Be Assimilated
- 013** - Keyboard Error; User Must Learn to Slow Down
- 014** - User Error; Reading License Agreement Mandatory to Continue
- 015** - Error Message Deleted
- 016** - Expected Error Did Not Occur; Attempting to Restart Error Sequence
- 017** - Multitasking Attempted; System Confused
- 018** - Network Error - Your Crash Will Be Replicated to All Stations
- 019** - Freedom-of-Choice Error; Select a Microsoft Browser To Continue
- 01A** - Insult Detected — Your Bill Gates Joke Will Be Deleted
- 01B** - Error Removing Temp File; a Permanent File Will Be Substituted
- 01C** - Wrong Disk Formatted. Sorry About That.
- 01D** - Mandatory Error Inserted to Meet Error Quota
- 01E** - Please Insert Your Favorite Error Here
- 01F** - Error In Progress; Please Wait....
- 020** - Unknown Error Occurred But Was Lost. Windows Will Try To Remember
- 021** - Error Parsing Error List; Please Wait For Next Error
- 022** - Upgrade Error; Please Format Your Drive And Reload Everything