



More	1	
	Multi-channel media framework	Submi
Linux-Watch headlines:	MPEG4 ASP/AVC video	produc
Getting to know	Windows Media 9/10 video	
Drupal	 JPEG digital still image camera Secure encryption support 	XML
Office 12 opens the door to OpenOffice	 Host processor layer 	
Solaris is a better		
Linux than Linux?? • SCO loses latest	Features common to both chips	
 subpoena attempts Longhorn vs. Linux: the server battle of 	Other touted features, for both chips, include:	
2007	Hardware video post-processing for scaling, rotation, etc.	
 Old PCs, new Linuxes Systems Solutions, 	 Integrated LCD controller with up to 32-bit precision, or 64-bit precision for the VSP300 	
Open-Xchange team	Numerous on-chip peripheral interfaces:	
on turnkey	◦ DMA	
collaboration serverAduva gets snapped	○ ATA/CE-ATA	
up by Sun	 Integrated memory access package for multiple 	
 IBM vs. SCO: Now 	bitstream sources	
it's IBM's turn • Fantastico LAMP	 USB 2.0 Slave, I2C, SPI, UART AC97, I2S, PCM audio 	
application setup for	• GPIO	
idiots	 JTAG Debug and Emulation 	
More	 SD/CF Memory Card Controller 	
Submissions	Why Linux?	
<u>news, events,</u> products, resource		
links, other	Vivace says it chose Linux because of its "native support for	
	real-time functionality, multi-processing and multi-threaded	
XML news feed	execution, [and] extensive bundled software components,	
	including rich networking and graphics."	
	Other Linux advantages touted by Vivace include:	
	User-selectable modes for real-time execution Thread prioritization	
	 Thread prioritization Support for high-resolution POSIX timers 	
	 Linux Security Module said to offer "a lightweight, 	
	general-purpose framework for access control" such as	
	DRM (digital rights management)	
	 Full-strength general-purpose cryptography library 	
	 Supports key networking technologies 	
	Variety of useful embedded filesystems, such as the	
	MontaVista-contributed PRAMFS	
	 Rich support for graphics (X Window System) 	
	Interestingly, with the exception of "security applications"	
	possibly related to DRM, Vivace says it expects to provide "all	
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media components" for its chips as open source software, suggesting it may be aiming at "sandbox-sensitive" intellectual property such as proprietary codecs in hardware. Support is planned for Windows Media 9, AVC L3 baseline profile, MPEG-4 advanced simple profile (including DivX), MPEG2 MP@ML, MP3, AC3, Dolby Digital and Pro Logic, and JPEG.

CEO Cary Ussery stated, "We have developed a platform that can support a complete range of integrated functionality. Our approach enables maximum flexibility to adapt to changes in standards and market requirements."

Paul O'Donovan, principal research analyst at Gartner, stated, "The future proliferation of video content available from a wide variety of sources in numerous formats and supported by a multitude of standards requires a flexible and feature-rich silicon platform now. Product developers in these very dynamic markets must be able to incorporate new features and functionality, at competitive price points, so the more programmable and the more integrated a chip solution, the better."

Availability

Vivace plans to fab both chips using 0.13-micron process technology. Both are expected to sample this summer. Both will be provided with reference designs, boards, and a toolsuite that can be used to develop software for all on-board processors, the company says.

Vivace promises to reveal additional details at the Spring Processor Forum this May, in San Jose.

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