

eXpressDSP Compliance Takes Off

eXpressDSP compliance reached a milestone last August, when Softier Inc. (Santa Clara, CA; www.softier.com) became the 100th company to launch compliant software. The compliance program has been gaining momentum ever since it was introduced several years ago by Texas Instruments. Compliance with the TMS320 DSP Algorithm Standard means that the algorithm has passed testing for the single, standard set of coding conventions and application programming interfaces that algorithm creators use to “wrap” the algorithm for system-ready use. Prior to the standard, creators had to re-engineer an algorithm to integrate into each different system. With compliance, algorithms can be written once by the creator and reused widely by integrators. Compliance details can be found at: http://dspvillage.ti.com/docs/catalog/software/details.jhtml?templateId=5121&path=templatedata/cm/swdetail/data/algstnd_intro



OMAP: Over 70 Third-Party Algorithms

With more than seventy readily available DSP software algorithms supplied by Texas Instrument's (Dallas; <http://www.omap.com>) DSP third party network, designers of next-generation multimedia applications based on the TI's new OMAP5910 application processor can bring their products to market much faster than ever. The one-two “punch” of robust DSP third-party code and the OMAP5910 should help to stimulate the creation of new end-equipment in such areas as telematics, wireless security, medical metering, biometrics, gaming, digital multimedia, location-based services and M-commerce.

Partnership to Marry Video Tech to TI DSPs

Ingenient Technologies (Rolling Meadows, Ill.; www.ingenient.com) and DivXNetworks, Inc. (San Diego, Calif.; www.divxnetworks.com) have signed an exclusive agreement to deliver DivX video technology to products based on Texas Instruments' DSPs. The effort is aimed at bringing DivX-powered products to the consumer market. DivXNetworks' DivX 5.02 is among the most widely used video technologies and to which Ingenient will bring its expertise in maximizing multimedia codecs for TI DSPs.



ATM SAR Software and Development Kit

Intelligraphics (Richardson, Texas; www.intelligraphics.com) is working with Texas Instruments Incorporated (Dallas, Texas; www.ti.com) to create an ATM SAR algorithm and software development kit for TI's TMS320C6415 and TMS320C6416 DSP generation processors. Intelligraphics' present version gives telecommunications and network hardware makers a DSP-based means to effect ATM communications, reducing cost and chip count. Today's version currently supports AAL5 (with plans for AAL2 implementation) combined with ATM and PCI DMA controller functions, all executed by DSP firmware.

Software Puts a Wireless “Face” on DSP

Troy Group, Inc. (Santa Ana, CA; <http://www.troypgroup.com>) and Stonestreet One, Inc. (Louisville, KY; <http://www.stonestreetone.com>) separately rolled out standard Bluetooth upper-level software for TI's TMS320C54x generation of DSP chips. The ability to port a Bluetooth stack to a programmable DSP lets developers go wireless with their C54x DSP-based products in such applications as consumer audio, headsets, hands-free cellular car kits, digital cameras.



Fedtec Joins Fold as a TI Third-Party Network Member

Federal Technologies Limited (Bangalore, India; www.fedtec.com), a design house, has joined Texas Instruments' Third Party Network Members program as a licensed manufacturer and DSP, digital imaging, and video developer. As such, the company will embed its MPEG-4 decoder/encoder technology into TI's DSC24, DSC25, and DM310 chip sets and offer reference design sales and support. It will also maintain hardware and software design services for customizing products using TI's digital still camera and media chip sets.



Code Composer Studio Cozies Up to LabView Software. . .

National Instruments Corporation (Austin, Texas; www.ni.com) will integrate its LabView graphical measurement software with Texas Instruments' Code Composer Studio integrated development environment. The combination should cut the complexity of developing tests for DSP-based system and help to verify product designs much earlier in the design process than usual. The reason: Design validation tests are typically delayed until prototypes are built, but the melding of LabView with the Code Composer Studio IDE will let engineers create tests that find flaws during the design modeling phase.



...and the Rational Test RealTime Package

Rational Software Corporation (Lexington, Mass.; www.rational.com) has integrated its Rational Test RealTime product with Texas Instruments' Code Composer Studio integrated development environment. Rational Test RealTime tests and analyzes embedded, real-time, and networked systems. Combined with the Code Composer Studio IDE, it will allow developers using TI's TMS320 DSP family of processors to improve the reliability, performance, and quality of their code. The integration is effected by an eXpressDSP Technology plug-in and delivers a Rational Test RealTime runtime analysis directly within the Code Composer Studio IDE. The integrated product is available at no charge to all Rational RealTime Test customers through a download at www.rational.com/support/downloadcenter/addins/testrt/index.jsp

Spirit Tips Add-ons for TI C54CST

From Spirit Corp. (Moscow, Russia; www.spiritcorp.com), fourteen software add-ons provide extended functionality to the telephony software that is already ROM'ed into the Texas Instruments C54CST client-side telephony chip. Among the algorithms are those for data Communications (V.32/V.32bis, V.22/V.22bis, V.42, V.42bis), telephony signaling (DTMF, CPTD, Caller ID), and voice (G.168, G.726, G.711, VAD, AGC, CNG). Also included are G3 Fax, FoIP, G.723.1 vocoder, G.729AB vocoder and signaling (MF R1, MF R2). The add-ons are available for licensing in the form of object code and, because they are based on CST software blocks in ROM, have extremely low memory and MIPS consumption. No external memory is required for a wide range of applications, thus holding down the total system cost. Users easily can build their own applications on top of the CST add-ons.

Video Compression Technology Aces DSP Compatibility Tests

VP4 video compression technology from On2 Technologies Inc. (New York, N.Y.; www.on2.com) has been successfully tested to comply with Texas Instruments' TMS320C62x and TMS320C64x DSP generation processors. Running on these processors, VP4 achieves high video quality at low data rates, making it suitable for a wide range of commercial, high-performance video and streaming media products. In all, VP4 is available for 15 of TI's DSPs. In addition, the decoder portion of VP4 is available across the entire family of TMS320C6000 DSP platforms.

Voice Recognition Software Embraces TMS320C5000

ART Advanced Recognition Technologies, Inc. (Atlanta, Ga.; www.art-comp.com) has ported its smARTspeak XG speech recognition software to the TMS320C5000 DSP platform. The embedded software, which complies with eXpressDSP Real-Time Software Technology, is the first phonemic speech recognition package designed for wireless mobile devices. It allows speaker-independent name dialing and other command and control functions without training and regardless of how command sentences are structured.



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Mailing Address:

Texas Instruments
Post Office Box 655303
Dallas, Texas 75265