

Finite verbs are shown in red.

Election Integrity Organizations, Leaders Urge States to Plan for Emergency Paper Ballots, Procedures for November Election
U.S Newswire (10/13/06)

Letters **were** sent out on Friday to all 50 governors, secretaries of state, and directors of elections, asking that they **provide** emergency paper ballots for the upcoming general election and for these to count as regular, not provisional, ballots. Over 50 election integrity groups and individuals including Robert F. Kenney Jr., Sen. John Kerry, Rep. Rush Holt, Leon County, Florida election supervisor Ion Sancho, and computer scientist Doug Jones **signed** the letter. The call for paper ballots **is** a response to the primaries when many electronic voting machines, which will **be** used by 80 percent of voters in the upcoming election, **malfunctioned** and voters **were** given provisional ballots that may not **have** been counted or even sent home. Brad Friedman, investigative journalist and co-founder of velvetrevolution.us **says**, "No legally registered voter should ever **be** sent away from the polls without being able to cast their vote. With these new electronic voting machines failing across the country, **it's** just common sense to make sure there **are** back-up plans and procedures in place." Congress recently **failed** to pass a bill that would **have** reimbursed states for the cost of emergency paper ballots. Maryland Republican Gov. Robert Erlich **has** called for statewide paper ballots after the problems during the primaries.

How to Say 'Don't Shoot' in Iraq
InternetNews.com (10/13/06) Hickins, Michael

IBM **has** developed a translation system that **allows** U.S. forces to speak directly to Iraqis in plain, conversational language. The system, dubbed the Multilingual Automatic Speech-to-Speech Translator (MASTOR), will **be** loaded onto laptops and **consists** of two microphones. Users **speak** into one of the microphones to have their voice translated by the computer using algorithms that **take** into account pitch, dialect, and health or emotional status, and then said aloud in the language of the other person they **are** speaking with. MASTOR also **creates** a textual account of conversations. Previous speech-to-speech technology **required** the use of set phrases, but MASTOR **is** able to process any speech and figure out what **is** meant and convey the meaning.

"This **is** not a weapon. The world **has** been divided and had so much conflict, and so much of that **has** been because of language barriers," **says** Yuqing Gao, manager of the speech recognition and understanding research group at IBM Research. MASTOR **is** able to translate a vocabulary of over 50,000 English words and 100,000 Iraqi Arabic words. MASTOR **is** part of the Defense Advanced Research Projects Agency's (DARPA) Spoken Language Communication and Translation System for Tactical Use (TRANSTAC). The technology **is** a response to the limited supply of military linguists, and **is** available in English to Modern Standard Arabic, and English to Mandarin Chinese.

Safe Internet Requires Total Network Security, Prof. Says
Wisconsin Technology Network (10/11/06) Plas, Joe Vanden

As Internet security threats **change** from being recognition-driven to being profit-driven, entire networks must **be** secured. Those writing malicious code **are** becoming increasingly motivated and innovative. "It **is** very clear now that there **are** people who **are** making a lot of money by malicious activity, that organized crime **is** getting involved in malicious activity, and this **represents** a very, very serious development from the standpoint that it also **means** that the bad guys **are** getting much more organized and focused in their activities," says Paul Barford, assistant professor in the University of Wisconsin-Madison Department of Computer Sciences and the school's Advance Internet Laboratory. With hacking software becoming increasingly easier to use for less-than-professionals, businesses must **change** their approach to security. Simply using firewalls and security software **is** no longer enough, even with such products becoming more automated and easier to use. What **is** needed to combat the rising threat **is** a combination of security that **is** present at all levels, placing barrier after barrier in the way of potential hackers, **says** security architect Mark Hartmann. "It's security in depth. Every device **has** its own role to play in security, from a laptop, to the network, to your firewall, to your applications," Hartmann **says**. At the Advanced Internet Laboratory, Barford **leads** a research team working on various projects that could **lead** to an improved Internet that can **defend** itself against attacks. The group's DOMINO project **is** focused on intrusion detection and monitoring, while the Global Environment for Network Innovations (GENI) project **is** tracking malicious activity. Barford **says** that "right now we **have** a significant lack of deployment of security in networks, and as we **move** forward with deploying the latest

technology in networks, the wholistic approach to security **is** something that's really going to solve a lot of problems."

SC06 Announces HPC Analytics Challenge Finalists Business Wire (10/10/06)

This year's HPC Analytics Challenge **has** been whittled down to three finalists to demonstrate cutting-edge data analysis techniques that can be used to solve difficult, real-world problems. Researchers from Carnegie Mellon University, the University of California, Davis, the University of Texas at Austin, and the Pittsburgh Supercomputing Center will **show** a 1,024-processor simulation of an earthquake in real time and on the fly from a remote laptop computer. A team from Osaka University, Japan's National Institute of Information and Communications Technology, Osaka University Dental Hospital, and the National Center for Microscopy and Imaging Research at the University of California, San Diego, will **present** an E-science infrastructure that can **be** used to gather speech sound from computer speech simulations. And researchers from the Pacific Northwest National Laboratory will **show** an end-to-end solution for turning biological data into knowledge for applications in minutes. The SC06 Analytics Challenge will **take** place Tuesday, Nov. 14, during the SC2006 international conference. ACM and IEEE **are** sponsoring the supercomputer conference, which **is** scheduled for Nov. 11-17, 2006, in Tampa. "The response to this year's challenge **has** been fantastic, with interest from all over the globe, and in eight distinct areas of technology," **says** Paul Fussell, co-chair of the SC06 Analytics Challenge. "The diversity and quality of the finalist submissions **reflects** what we **have** seen throughout the Challenge: every entry **was** noteworthy." For more information about SC06, or to register, **visit** <http://www.sc-conference.org/>