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Sony Group, Toshiba, IBM Renew STI Center with Georgia Tech

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The Georgia Tech College of Computing has announced the renewal of the Sony Corp/Sony Computer Entertainment Inc (Sony Group)-Toshiba-IBM Center of Competence (STI Center), based on Georgia Tech's work in multiple areas of research for the Cell Broadband Engine (Cell/BE) technology.

Through Georgia Tech's efforts, the STI Center has been responsible for creating and disseminating software optimized for Cell/BE systems, and for performing research on the design of Cell/BE systems, algorithms and applications.

In conjunction with this renewal of the STI Center, Georgia Tech has announced a series of research projects that are being undertaken at the center to develop applications and productivity tools based on the Cell/BE microprocessor.

One of the key research challenges that the collaborators will address through continued applied research is the use of Cell/BE technology to better monitor an aircraft's structural safety in commercial and military airplanes. Researchers will develop Cell/BE based data-processing software that will monitor structural components in flight by measuring and recording an aircraft's vibrations through a distributed network of sensors. Although a commercial signal processing application for airplanes is a long-term plan, researchers are working to develop a solid software foundation in the labs.

Some other joint research projects in productivity enhancements include a useful signal processing kernel needed for oil and gas exploration and seismic monitoring; encryption libraries for securing communications for privacy; high-speed multimedia Codecs, such as MPEG2 and JPEG2000 encoders and decoders; and bioinformatics, such as DNA sequence alignment and comparison.

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