Spotlight Feature

ARM® - QSound Strategic Collaboration and microQ® Optimization

ARM and QSound Labs entered into a strategic collaboration in 2006 to bring industry leading MIDI synthesis, stereo expansion, audio effects, enhancements and 3D positional audio solutions to the wireless market. The partnership includes engineering and marketing initiatives.

From an engineering perspective, QSound Labs has done extensive work to optimize its microQ software to achieve one of the most efficient audio solutions in terms of memory footprint and CPU performance. ARM has undertaken further optimizations of QSound's highly regarded and efficient software. The focus of the optimization is centered on the core components of microQ:

- mQSynth™ Polyphonic Wavetable Synthesizer
- mQFX™ Digital Effects
- mQ3D™ Positional 3D Audio Engine

The improvements achieved range from 23-40+ percent less mega cycles per second (mcps) using the microQ audio engine on the ARMv5E and ARMv6 architectures.

For more details about the ARM optimization of the microQ digital audio engine or to download a brochure, see our microQ - ARM product page.