
Subject: Real-Time I/O Capabilities/Limitations in IPL?
Posted by [Randy Stack](#) on Sun, 24 Dec 2000 08:55:53 GMT
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My company is in the process of porting our signal- and image-processing algorithms to a more generalized environment, and has asked me to evaluate all of our available options. Basically, we need to transform audio and video signals into the spectral domain via FFT, do a bit of matrix processing, and then render the results via iFFT. Presently, we're using a Symbolic Sound Kyma signal processing workstation to accomplish this for audio.

In looking over the specs for IPL, it seems to have everything we need to realize our app...but I couldn't find any information regarding image or signal I/O (apart from reading various pre-stored file formats). Does IPL have the capability to process a real-time signal? In other words, can I feed live audio into the FFT via an A/D converter, process it, iFFT it, and send the resulting signals out over a D/A (as we're presently doing with the dedicated Kyma hardware)?

And, if IPL /doesn't/ handle real-time I/O, are there any other software-based products that do? We'll likely be using a dual-G4 PowerMac as our base 'general computing environment'. So far, I've found the Max/MSP/nato.0+55+3d software that will satisfy our application and I/O requirements, but was wondering what else might be available?

TIA for and all insights...

~Randy Stack
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