

DSP System

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How hard is it to actually implement a DSP system?

I've been looking at the TMS320C6720 and some conversion devices and it seems I can gather all the components needed but I really don't have a good idea about how to go and implement something like that. The pdf's I've looked at on TI's don't really go into detail about how to actually put something together(atleast the one's I've seen).

All I want to do is take an analog signal, add some digital filtering(well, whatever I want once I get into the software side), and output the signal.

The digital conversion's seems pretty straight forward and I was plan on using something like the PCM1741 and PCM1807 or something similar for the conversion(although I ultimately want to go to 192khz).

I think all I'll need is the converters, memory, and the dsp? (I don't think I'll need a controller?) Is it going to be much harder than just hooking all these up together and then downloading some code to the dsp?

At this point I do not need anything fancy and just want to apply some effects like reverb and chorus to a signal for a start. The biggest problems at this point is the IC packaging for these devices as most are out of my reach(BGA, for example) for prototyping.

Is such a conceptually simple project out of my ability as a hobbyist? Do I need to come up with some prototyping schematic and get some pcb's made for prototyping? I'm really not sure how to go about this and I can't find any documents online that can give me some details about the process ;/

Any ideas?

Thanks,
Jon