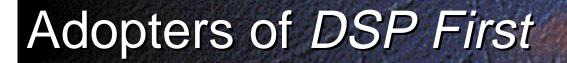


- Arizona State Univ.
- Calif. State Univ. Sacramento
- California State-Long Beach
- Canada College
- Clark Atlanta Univ.
- Colorado School of Mines
- DePaul Univ. Lincoln Park
- Devry Inst. of Tech.
- Diablo Valley College
- **D**uke Univ.
- Emory Univ.

- Florida Intl. Univ.
- George Mason Univ.
- Georgia Inst. of Tech.
- Indiana Univ. Bloomington
- Kean College of New Jersey
- Lake Superior State Univ.
- North Carolina State Univ.
- Northern AZ Univ.
- Ohio State Univ.
- PA College of Tech.
- Penn State Univ. Great Valley



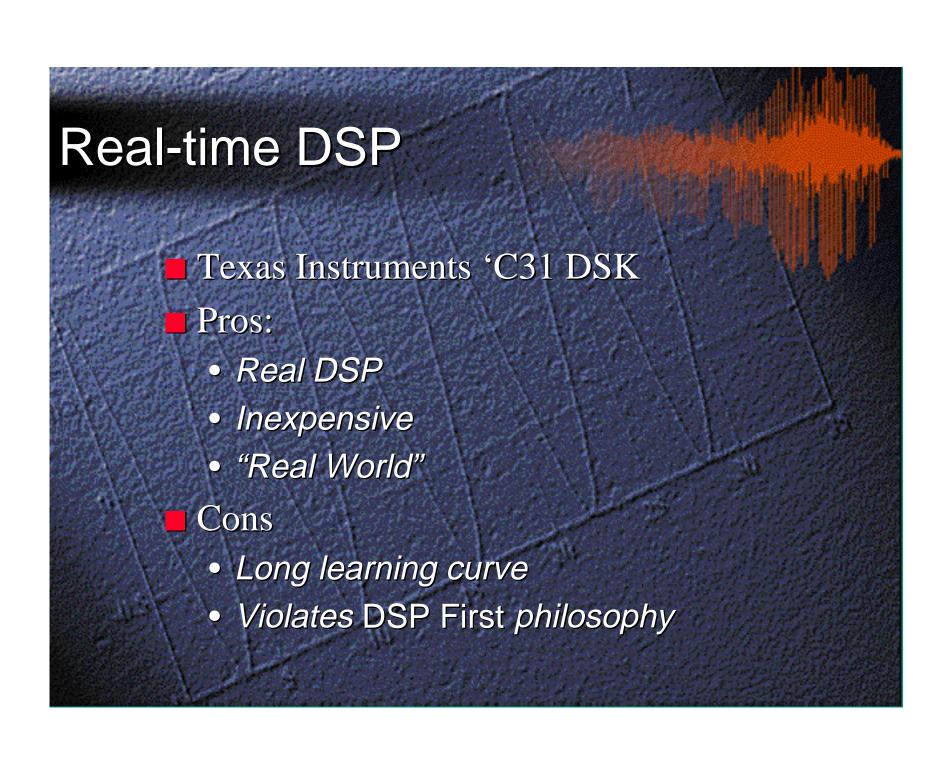
- 🧵 Rose-Hulman Inst. of Tech.
- 📕 SanDiego State Univ.
- Santa Clara Univ.
- 📕 So. Illinois Univ. Carbondale
- South Dakota State Univ.
- Stanford Univ.
- Stevens Inst. of Tech
- Tufts Univ.
- Univ. Cal Ext. Santa Cruz
- Univ. of California Berkeley

- Univ. of California Irvine
- Univ. of Houston Clearlake
- Univ. of Oklahoma
- Univ. of Southern California
- Univ. of Florida
- Univ. of Houston
- Univ. of Tennessee
- Univ. of Texas
- Univ. of Tulsa
- Valdosta State Univ.
- Vanderbilt Univ.

## Missing From DSP First

 $y[n] = a_0y[n-1] + b_0x[n] + b_1x[n-1]$ 

That's great, but how do you do it?



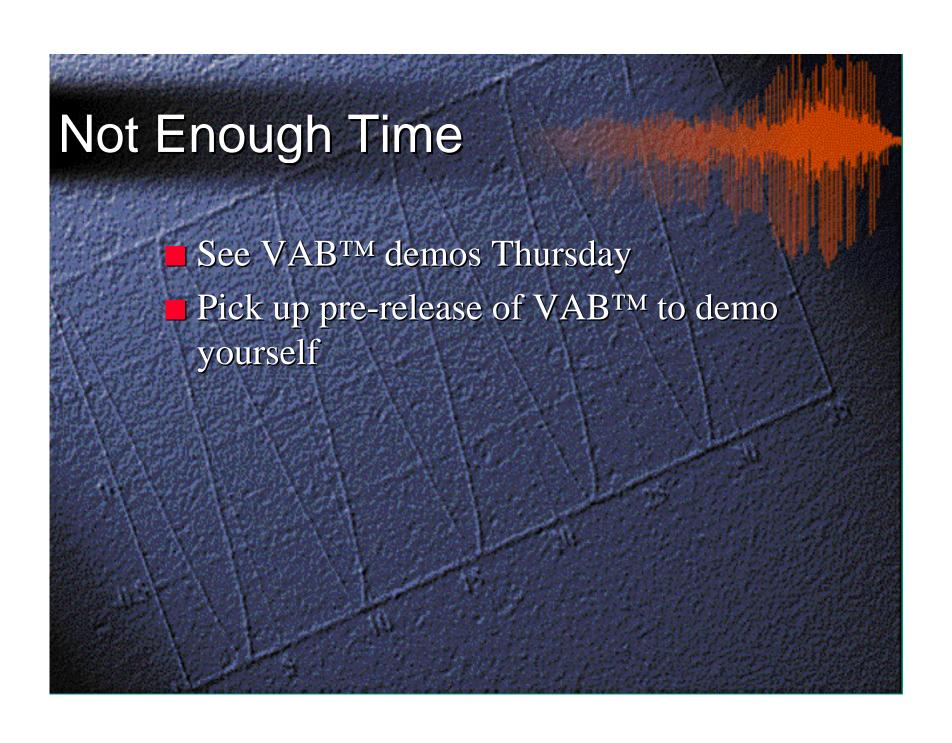
## Wouldn't be nice if you could...

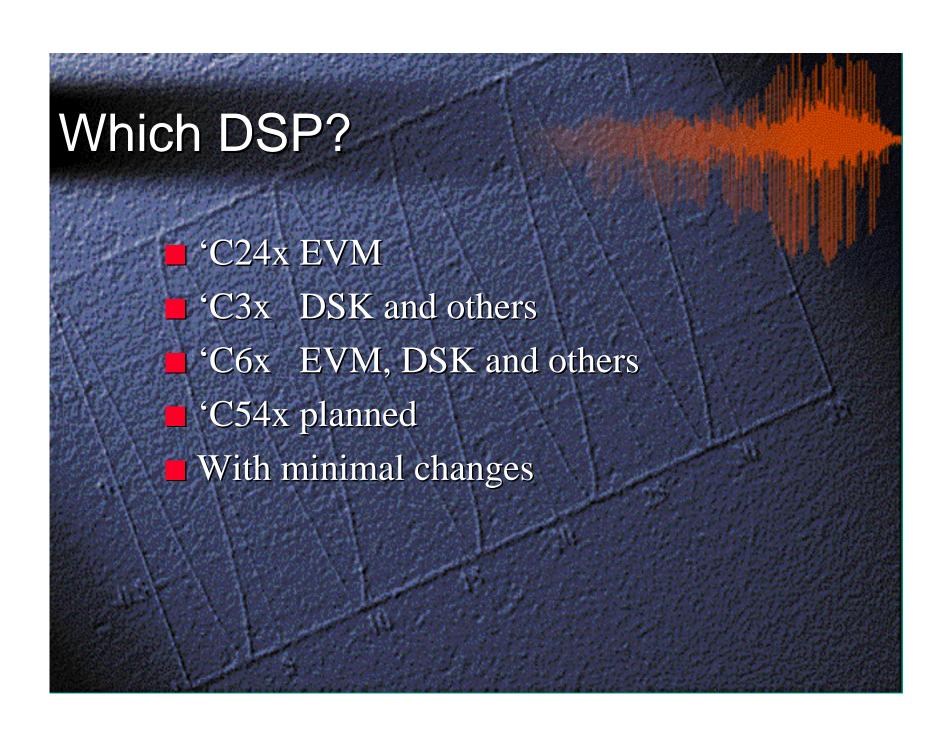
- Quickly show what sampled and reconstructed speech sounds like
- Plot the waveform in real-time
- See the spectrum too
- Throw in a sinewave

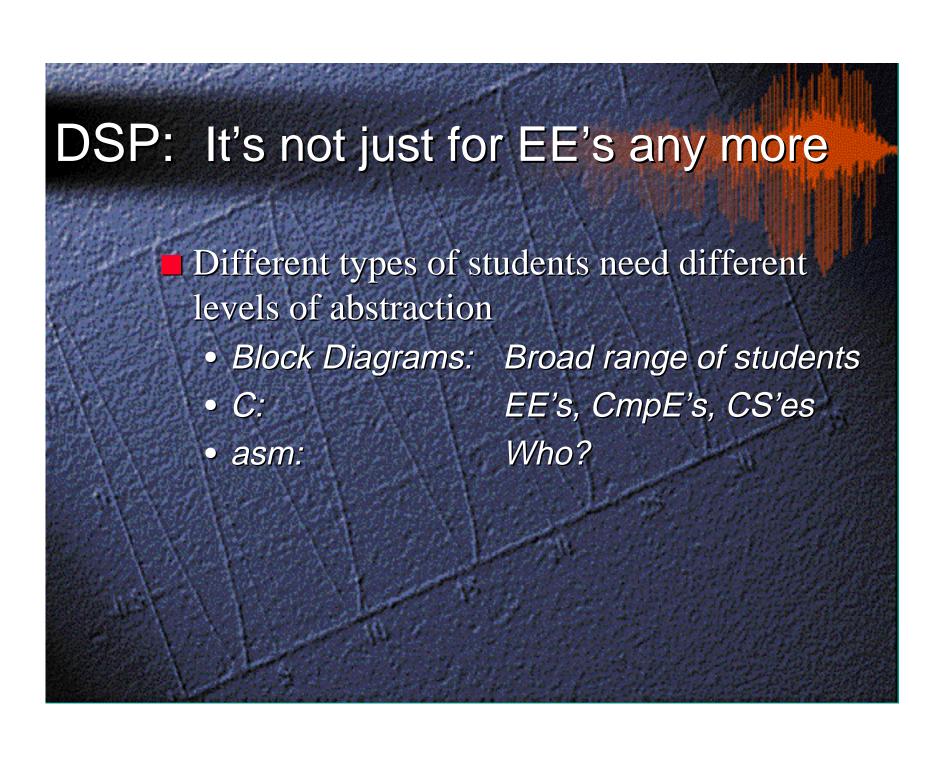
....without assembly programming?

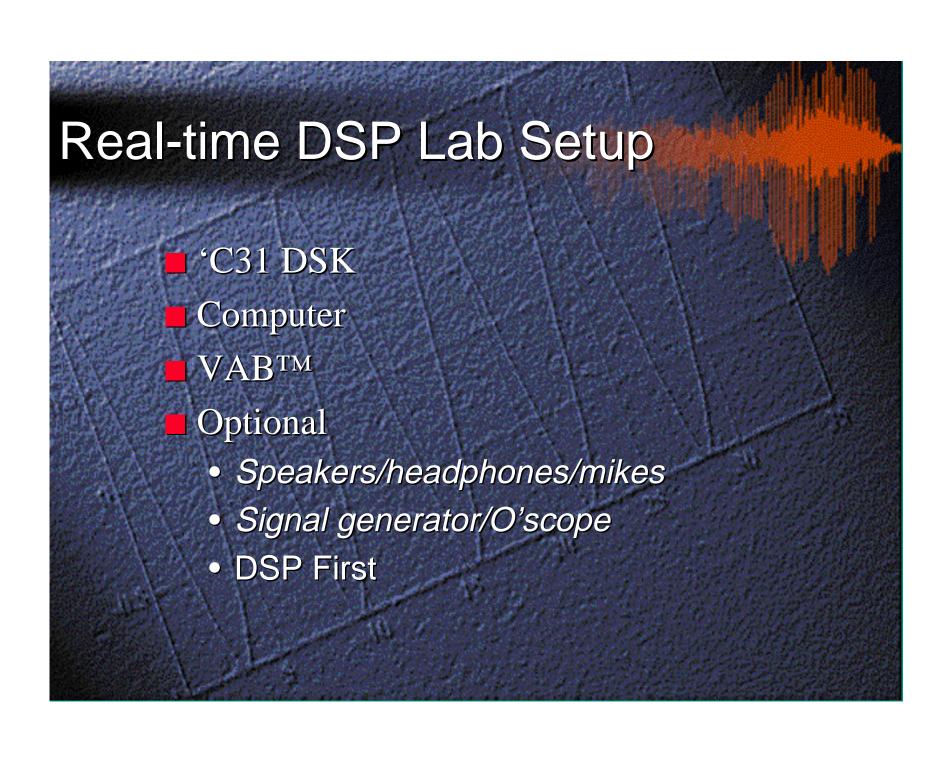














- DSP can be taught early in the curriculum
- Real-time DSP can add more excitement
- Real-time DSP can provide new insights
- More focus on application, less on implementation details
- Assembly programming isn't needed
- Come see the demos at the Thursday evening display