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Seminar

PROCEEDINGS

Speaker: Good afternoon. Welcome to 380. Just a quick reminder. As the book goes around, those of you who were enrolled in the class, please sign it. And you might pick up the missing slots that you have not signed for in the past, annotating them appropriately.

Our speaker for next week will be Tom Blank. He's going to speak on incremental CAD techniques for systems design. But it turns out to be a euphemism for three things that he thinks are very interesting and it promises to be a fairly exciting talk.

For those of you who are keeping track, the Sun Microsystem talk scheduled for March 11th has been canceled and we will have a new speaker for you. There are actually two possible speakers, one of whom is as yet uncommitted. But if it can be worked out, it will cover a particularly interesting area of the law and software at the moment.

Our speaker for today is David Schwartz and John Stoffner. They're from Compusonics, a startup company here in Palo Alto. They're going to speak on multiprocessor computers for digital, audio and video recording and editing. It's a masterful sound and light show, I think. And I'll introduce Dave and he can take care of the remaining introductions and the rest of the

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afternoon.

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Mr. David Schwartz: Thank you, Dennis. We're going straight to slides. The talk -- we changed the title of the talk, of course, without telling Dennis. It's now inside the DSP-1000 audio computer. John Stoffner is heading up the video project, but we felt that trying to do two talks in one session, both audio and video, would just get to be too much. So we'll cover the audio. And if you're still interested, we can be invited back and get more into the video processors.

This is the machine we're going to talk about today. It's the DSP-1000. It's a computer that is an audio device. It records. There's a cartridge in there. I may as well start by this -- John, could you help me out? I'm tied down. Just hand the cartridges out. I'd like these back. Just hand them to the audience. Just pass them around.

Those are the optical disks that this machine records on. They are write once optical disks. They're double sided, 233 megabytes per side. They're made by several companies. The ones that you're handing around are made by Dysel Chemical Company in Japan. They're also made by Phillips and 3M and Plasma in England.

Do I ask for slides? Or do they automatically change them?

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Speaker: Just ask for them.

Mr. David Schwartz: Slide. The DSP 1000 has a number of outstanding points. I'll summarize the big ones. The recordings are permanent. I think you're all familiar with tape recorders and what happens with tapes and cassettes.

The quality of the recording is equivalent when making an original recording with the machine that is using microphones and recording a live performance, you're effectively making a digital master, like the compact disk master. Although the format is different, we do sample at 44.1 kilohertz, 16 bit linear samples in stereo.

So we think the quality's very high. Of course, it's random access. Since it's a computer, its editing software is built in. We'll talk about that.

It interfaces to any computer really over the RS 232 port. The first software that we're bringing out for interfacing is MS DOS software because we all know the world is according to IBM at this point.

And the error rate of the disk is very, very low, especially compared to compact disks or CD ROM. The error correction board, made here in Valley, corrects to 10(-12) beta errors, which makes it suitable for any type of data storage.

Slide please. The recording time varies. There

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Seminar

are two key technologies in here. One is the high capacity storage medium and a computer that can use it in real time. And the other is digital signal processing which is used to optimize the storage on the disk. It's also used to create what you might say is the emulation of tape speed.

Of course, there's no tape. So there's no tape speed. So we have what we call short for Compusonics, CSX. There are three settings that are user selectable from the front panel, CSX2, very high fidelity of stereo, equivalent to master recording, 30 minutes per side of the disk. CSX4 is about what you'd get from a very high quality professional tape recorder, an analog tape recorder. Say a Studder or an Atari Pro analog half inch or Ampex half inch deck. CSX8 is a baud limited signal, but very clean up to six kilohertz. It's mainly intended for very old records which don't have any high frequency material at all other than surface noise or speech, very high fidelity speech. Or, of course, AM radio which runs on that bandwidth.

Of course, if you turn the disk over, you have double the recording time too. Slide.

Speaker: We're averaging a minute 30 seconds on the slide.

Mr. David Schwartz: Oh, boy. We're in trouble

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