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SDA01

NEW SPEECH DEVELOPMENT SYSTEM FROM TI

(PASS)

OFFERS REAL-TIME SPEECH PROCESSING CAPABILITIES

DALLAS, FEB. 4.-A SPEECH DEVELOPMENT SYSTEM CAPABLE OF PROCESSING LPC (LINEAR PREDICTIVE CODING) SYNTHESIZED-SPEECH DATA IN REAL TIME WAS ANNOUNCED TODAY BY TI. THE NEW SDS50 PROVIDES A HIGHLY FLEXIBLE TOOL TO DESIGNERS WHO WISH TO INCORPORATE SOLID STATE SPEECH(TM) TECHNOLOGY INTO A PRODUCT DESIGN.

AS A REAL-TIME SPEECH-DEVELOPMENT SYSTEM, THE SDS50 CAN INSTANTLY TRANSLATE SPOKEN WORDS INTO LPC SPEECH DATA AND PRODUCE SYNTHESIZED SPEECH. THIS IS A SIGNIFICANT INNOVATION OVER OTHER PREVIOUSLY AVAILABLE SPEECH-DEVELOPMENT SYSTEMS, WHICH OFTEN REQUIRE SUBSTANTIAL AMOUNTS OF HARDWARE AND WEEKS OF PROCESSING TIME BEFORE THE CUSTOMER CAN HEAR THE SYNTHESIZED SPEECH RESULTING FROM A RECORDING SESSION.

THE SDS50 ALSO ALLOWS USERS TO EDIT LPC SPEECH DATA VIA ANY RS-232-C COMPATIBLE TERMINAL. THE PITCH, ENERGY, AND VOCAL-TRACT CONFIGURATION CAN BE MODIFIED BY THE USER, THEN PRODUCED THROUGH THE SDS50'S LOUDSPEAKER TO HEAR THE RESULT IMMEDIATELY. COMMANDS ALSO CAN BE GIVEN TO STORE THE RESULTS IN EPROM'S (ERASABLE PROGRAMMABLE READ-ONLY MEMORY) BY USE OF AN OPTIONAL BUILT-IN EPROM PROGRAMMER. THIS ALLOWS QUICK, EFFICIENT GENERATION OF SYNTHESIZED-SPEECH VOCABULARIES THAT CAN EITHER BE USED DIRECTLY IN A PRODUCT //MORE ON P03//

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OR EVALUATED IN A PROTOTYPE DESIGN.

WORDS AND PHRASES PROCESSED BY THE SDS50 REQUIRE LESS THAN 1.8 KILOBITS-PER-SECOND (KB/S) OF MEMORY SPACE -- A 50-TO-1 REDUCTION IN MEMORY SPACE OVER DIRECTLY-DIGITIZED SPEECH WAVEFORMS. UP TO 12 SECONDS OF SPEECH CAN BE ACCOMMODATED IN THE SYSTEM'S 16 KILOBYTES OF AVAILABLE RAM (RANDOM-ACCESS MEMORY). THIS DATA CAN BE UPLOADED TO OR DOWNLOADED FROM A HOST COMPUTER.

THE SDS50 CONSISTS PRIMARILY OF FOUR MICROCOMPUTER BOARDS: A CUSTOM PROCESSOR BOARD, TM990/101MA CENTRAL-PROCESSING UNIT BOARD, TM990/201-43 MEMORY BOARD, AND ONE OF A CHOICE OF SPEECH SYNTHESIZER BOARDS (BASED ON EITHER THE TMS5100 OR TMS5200 VOICE-SYNTHESIS PROCESSORS.) THE SDS50 ENCLOSURE CAN ALSO ACCOMMODATE A TM990/302 PROM PROGRAMMER FOR USERS THAT WANT THE EPROM PROGRAMMING OPTION.

THE SDS50 IS AVAILABLE FOR \$16,000 WITH 4 TO 6 WEEK DELIVERY TIMES.

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