



THE TEXAS-INSTRUMENTS PC-BASED SPEECH VOCABULARY DEVELOPMENT SYSTEM  
MAKES IT EVEN EASIER TO PUT SPEECH INTO APPLICATIONS

G Murillo, G Benbassat and Y Masse

Texas Instruments, France

ABSTRACT

As synthetic speech applications demanding a limited vocabulary grow and synthesizer interfacing becomes easier, it is more and more important for the user to have a very performant, easy to use system allowing for the development of synthetic speech vocabulary. Texas Instruments has filled this need with the PC-SDS, a speech development system (composed of two plug-in boards and a dedicated software) working on any IBM compatible personal computer allowing to record a speaker, analyze, LPC synthesize and eventually correcting or modifying this synthesized speech before putting it into the final application. Nevertheless, as products dedicated to generating synthetic become lower priced and as the range of synthetic speech applications widens, vocabulary development can not be restricted to speech specialists and a fast, complete, performant, easy to use system needs to be provided to any user wishing to develop a synthetic speech application. The system presented here (Texas Instruments PC SDS) has been reviewed with this objective in view. The station provides now system guided window menus allowing the setting up for different synthesizers, output bit-rates, speaker characteristics, etc. It also permits simpler manipulation by increasing the number of available options within its "record-analyze-synthesize" module and finally it presents a more powerful and interactive memory data generation module.