MELP Vocoder
Mixed-Excitation Linear Predictive

Adaptive Digital Technologies, Inc.

PRODUCT DESCRIPTION

Adaptive Digital's **MELP** (Mixed-Excitation Linear Predictive) vocoder is a real-time implementation of the Federal Standard 2400 bps speech coder, suitable for use by OEM customers for VoIP, telecom, military and government, and other low bit-rate compressed speech applications.

MELP is robust in difficult background noise environments such as those frequently encountered in commercial and military communication systems.

FEATURES

- Functions are C-callable.
- Multi-channel capable

Strategic member
of the TI Third
Party Network

AVAILABLILITY

ADT MELP is currently available on the TMS320™ DSP Family
C55x™ DSP Generation and C6000™DSP Platform

SPECIFICATIONS

Coding Rate: 2.4 kbps

Sampling Rate: 8 kHz

C55x –

All Memory usage is given in units of byte.

Function	MIPS Peak loading	Program Memory	Data Memory	Scratch	Per-Channel Data Memory
Encode	24.3	21372	19456	3080	2480
Decode	15.1			3080	896

C6x

All Memory usage is given in units of byte.

Function	MIPS Peak loading	Program Memory	Data Memory	Scratch	Per-Channel Data Memory
Encode	21.1	53312	19280	3064	2480
Decode	14.7	57632	19280	3064	904
Encode & Decode	35.8	61248	19280	3064	3384

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FUNCTION

InitializeMelpEncoderChannel (. . .)   Initializes the MELP encoder

InitializeMelpDecoderChannel (. . .)   Initializes the MELP decoder

EncodeMelp (. . .)   Executes the MELP encoder

DecodeMelp (. . .)   Executes the MELP decoder

CONTACT INFORMATION

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