



Encore's EVRC-B

Technology

Enhanced Variable Rate Codec B (EVRC-B) is a speech codec used by CDMA networks. EVRC-B is an enhancement to EVRC and compresses each 20 milliseconds of 8000 Hz, 16-bit sampled speech input into output frames of one of the four different sizes: Rate 1 - 171 bits, Rate 1/2 - 80 bits, Rate 1/4 - 40 bits, Rate 1/8 - 16 bits.

In addition, there are two zero bit codec frame types: null frames and erasure frames, similar to EVRC. One significant enhancement in EVRC-B is the use of 1/4 rate frames that were not used in EVRC. This provides lower average data rates (ADRs) compared to EVRC, for a given voice quality.

Features

- Fully compatible with the following 3GPP2 standard
Enhanced Variable Rate Codec, Speech Service Option 3 and Option 68 for Wideband Spread Spectrum Digital Systems (2006)
- Supports Noise Suppression.
- Full duplex multi-channel capability.
- Flexible interface with 'C' callability, with a single archive file for all functions.
- Built-in scratch memory management to avoid run-time overloading of system stack memory.
- The code is interruptible and frame re-entrant. It can be used in systems with multi threaded software architecture.

Platforms

- TMS320C62X

Performance Numbers

Platform	Program Memory (KBytes)	Data Memory (KBytes)			MIPS
		Static/Channel	Scratch	Tables	
TMS320C62X	282	6.84	10.85	29.81	35.88

Availability

Now

For further information please visit our web site, <http://www.ncoretech.com> or email to: jp@ncoretech.com