



Encore's G.711

Technology

ITU-T G.711 is a standard to represent 8 bit compressed pulse code modulation (PCM) samples for signals of voice frequencies, sampled at the rate of 8000 samples/second. G.711 encoder will create a 64 Kbps bitstream. This standard has two forms, viz., A-Law and μ -Law. A-Law G.711 PCM encoder converts 13 bit linear PCM samples into 8 bit compressed PCM (logarithmic form) samples, and the decoder does the conversion vice versa. μ -Law G.711 PCM encoder converts 14 bit linear PCM samples into 8 bit compressed PCM samples.

Features

- Fully compatible/bit-exact with the ITU-T G.711 standard.
- Frame based design. Frame is designed as 10 msec (80 samples).
- Companding mode is selectable on the fly – once every frame (10 msec, 80 samples).
- Full duplex multi-channel capability.
- Flexible interface with 'C' callability, with a single archive file for all functions.
- Relocatable program space.
- The code is interruptible and full re-entrant. It can be used in systems with multi threaded software architecture.

Platforms

- TMS320C64X
- TMS320C62X
- TMS320C54X
- TMS320C55X
- ARM9E
- ARM9
- Coldfire (MCF52xx,53xx,522xx)
- PowerPC

Performance Numbers

Platform	Program Memory (KBytes)	Data Memory (KBytes)			MIPS
		Static/Channel	Scratch	Tables	
TMS320C64X	2	-	-	-	0.2
TMS320C62X	2	-	-	-	0.2
TMS320C54X	0.538	-	-	0.07	0.329
TMS320C55X	0.60	-	-	0.07	0.32
ARM9E	2	-	-	0.07	0.8
ARM9	2	-	-	0.07	0.8
PowerPC	2	-	-	0.07	0.8
M52xx, M53xx, M522xx	2			0.07	3.5

Availability

Now

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