

SPIRIT G.711 Codec

SPIRIT G.711 vocoder conforms to ITU-T G.711 recommendation. It can be used in a wide range of applications such as telephony, multimedia devices, wireless telephony, and videoconferencing products.

Features

- Fully bit exact with ITU-T G.711
- 64 kbit/s expander input rate
- 104 or 112 kbit/s expander output rate
- A-law or μ -law expander input
- Uniform PCM expander output
- 104 or 112 kbit/s compressor input rate
- 64 kbit/s compressor output rate
- Uniform PCM compressor input
- A-law or μ -law compressor output
- Selectable frame/buffer memory size according to the system needs
- Very simple application interface
- eXpressDSP compliant. Code is reentrant, supports multithreading and dynamic memory allocation. At the same time allows direct (non-eXpressDSP) interface to enable static memory allocation
- Can be easily ported to any DSP platform

Benefits

- Highly optimized code ideal for resource constrained applications
- Easy integration and fast time-to-market

Applications

- VoIP gateways
- Communication devices
- Telephony

Availability

- TI OMAP3
- Tensilica HiFi2
- eXpressDSP compliant object code for TMS320C54xx
- eXpressDSP compliant object code for TMS320C55xx
- object code for ARM7, ARM9, ARM9E
- Fully functional evaluation object code (available upon request)
- DLL for MS Windows

Specifications

SPIRIT provides porting services to multiple DSP (Motorola, Analog Devices, etc), RISC and general-purpose processors. The product is supplied with test environment and integration example code.

Detailed Product Annotation and User Guide documents describing testing procedures, interface and integration of this product, as well as PC-based and DSP-based (TI 5402 DSK) demos are available for evaluation upon request.

PLATFORM	TI C54xx	
	Compressor	Expander
Peak/Average MIPS	0.67/0.63	0.38/0.34
Program Memory, KWords	0.18	0.18
Constant Memory, KWords	0.025	0.025
Dynamic Memory, KWords	0.01 per channel	0.01 per channel
Scratch Memory, KWords	-	-

PLATFORM	TI C55xx	
	Compressor	Expander
Peak/Average MIPS	0.66/0.62	0.37/0.33
Program Memory, KWords	0.17	0.17
Constant Memory, KWords	0.023	0.023
Dynamic Memory, KWords	0.01 per channel	0.01 per channel
Scratch Memory, KWords	-	-

PLATFORM	ARM9E	
	Compressor	Expander
Peak MIPS	0.7	0.45
Program Memory, KB	0.55	0.55
Constant Memory, KB	0	0
Dynamic Memory, KB	0	0
Scratch Memory, KB	-	-

PLATFORM	Tensilica HiFi2	
	Compressor + Expander	
Peak MIPS	0.8	
Program Memory, KB	2	
Constant Memory, KB	0.6	
Dynamic Memory, KB	0.02	

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