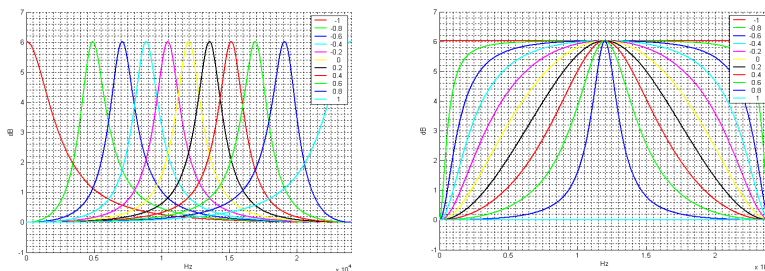


SPiRiT Parametric Equalizer

The equalizer (EQ) is software that allows to apply the given set of peaking or shelving filters to frequency bands of a sound signal. Equalizer which allows to change its parameters is called parametric equalizer.

SPiRiT Parametric Equalizer is a flexible solution specifically designed for embedded fixed-point platforms. Equalizer can be configured to filter N channels.

Example of EQ parametric adjustment:



Features

Parameters defined by the application:

- Number of EQ bands
- Center frequency for each band
- Width of each band
- Gain in each band

Benefits

- Flexible parametric solution
- Highly optimized code
- Ideal for resource constrained applications
- Easy integration and fast time to market

Applications

- Digital audio players
- Portable media players
- Audio streaming/digital radio
- Set-top boxes
- Mobile phones
- Car electronics

Availability

- ARM Now
- TI C6xx Call
- Starcore Call
- MIPS Call

Resource Requirements

PLATFORM	ARM 9E	
	Peaking filter	Shelving filter
Peak MIPS	1.19	0.93
Total Memory for 5-band EQ, KB	3.05	

MIPS are given for worst-case 48 KHz mono bitstream

CONTACTS

General: 1-408-540-6033
www.spiritdsp.com

Russia: 7-495-661-21-78
France: 33-623-021-563
Israel: 972-3-736-9763
Italy: 39-02-6680-2557

Germany: 49-641-48-08300
USA: 1-888-374-4410
Canada: 1-888-374-4410
Japan: +81-3-6361-8080

Taiwan: 886-2-2888-1010, 886-2-2696-0055
Korea: 82-70-7780-9910, 82-2-33473-5080
China: 86-21-63502288-820
Singapore: 65-6744- 9789