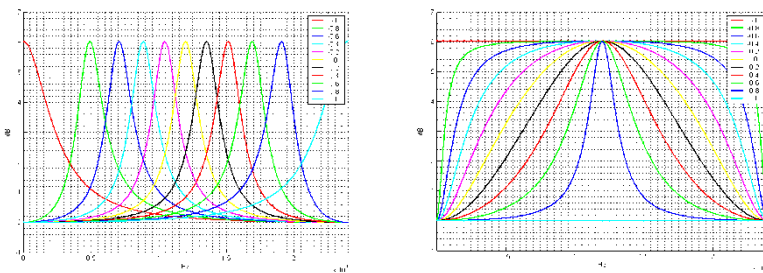


SPiRiT Parametric Equalizer

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

www.spiritdsp.com
sales@spiritdsp.com

RU & EU: +7-499-995-23-85

USA: +1-916-955-4507

Japan: +81-3-6361-8086

India: +91-9833-894005

China: +86-136-0192-2495

Taiwan: +886-2-2888-1010 ext. 100

Korea: +82-17-232-3878

Singapore: +65-9380-4061

Vietnam: +84-24-3772-7766