

Overview

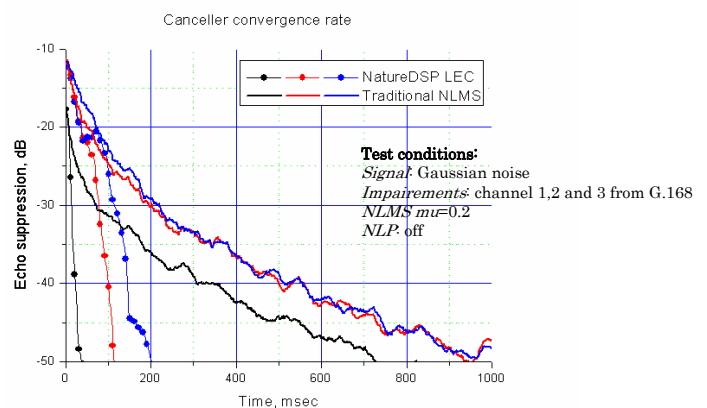
True elimination of echo is critical task for PBX and other VoIP equipment. **IntegrIT Line Echo Cancellor (LEC)** – software product for adaptive echo cancellation for telephone circuits. **IntegrIT LEC** uses modern powerful IPNLMS algorithm which provides the fastest convergence time and intelligent behavior under double-talk conditions. Canceller especially designed for working with non-linear hybrids providing significant ERLE improvement. Adaptive non-linear processing (NLP) scheme eliminates residual echo without speech degradation.

Features

- adaptive echo cancellation providing comfort conversations even in presence of high line echo (up to 128 msec)
- fastest conversion rate, thanks to IPNLMS scheme – typically 3-5 times faster than traditional cancellers
- nonlinearity compensator suppressing remaining echo caused by nonlinear distortions in electrical or acoustic path or mechanical resonances
- fully tested according to G.168-2004

Applications

- voice and video over IP conferencing terminals
- PBX
- videophones



Specifications

PARAMETER	Value			Notes
	Min	Max	Typ	
Echo path	0	128		
Extra echo delay	0	128		allows to take into account delay in drivers
Convergence time, msec			100	@ channel 2 (G.168-2004), suppression 30 dB
NLP threshold	-55	-35		adaptive
Acceptable hybrid echo level, dB		-3		

Quality proved by ITE

IntegrIT LEC is delivered with fully automated IntegrIT Testing Environment (ITE) for target platform based on reference vectors set along with extended IntegrIT proprietary vectors and methods.

Availability

IntegrIT Line Echo Cancellor is ported to various platforms and operating systems such as Windows, Windows Embedded CE 6.0, Linux, MCBC 3.0, DSP-BIOS. It could be run on:

- x86
- ARM9E, ARM11
- Marvell Sheeva/KirKwood/Armada
- DSP Texas Instruments OMAP35xx/C64xx, Analog Devices BlackFin

The product is compatible with other VoIP products of IntegrIT, such as vocoders, noise suppressor, and so on.

Contacts

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