



GAO Research Inc. Line Echo Canceller (LEC) Software

GAO Research Inc.

#1 In Embedded Communications Software

<http://www.gaoresearch.com>

Features

- ▶ Implemented in assembly or C.
- ▶ User-callable functions.
- ▶ Double-talk detection.
- ▶ Ideal for full-duplex operation.
- ▶ Compliant with the ITU G.165 recommendation.

Product Description

GAO's LEC software cancels electrical line echoes caused by 2-to-4 wire conversion hybrids in telephone lines. The line echo canceller is also designed for integration with other software modules from GAO such as our DTMF Encoder/Decoder to enhance performance. Line echo cancellation can be used in long distance voice communication, especially in links involving satellite networks and intercontinental long-haul circuits. It can also be employed in addition to echo suppressors for long delays.

GAO's line echo canceller consists of two user-callable functions that perform echo cancellation and initialization operations.

Leadership in Embedded Communications Software

With nearly two decades of experience, GAO leads the embedded communications software market by providing comprehensive modem, fax, speech, and telephony technologies; broad technical expertise; and unsurpassed support to our world-class customers including electronics, communications, and semiconductor companies across the globe. GAO's software integrates easily with MP3, MPEG, TCP/IP, and most popular real-time operating systems.

Rigorous Testing

GAO's testing facilities are equipped with state-of-the-art test equipment. Our modem and fax software is rigorously tested on TAS, Consultronics, Rochelle, Advent and Telegra equipment under various channel models according to the relevant ITU or TIA standards. All GAO's speech software has passed the test vectors specified by the ITU. Our telephony software meets all appropriate TIA, EIA, BellCore, and Mitel standards. GAO also adheres to stringent quality control procedures, which is reflected in our well structured code, detailed design documentation, and well-defined design and test plans. This ensures ease of integration into the customer's system, easy maintenance, and a smooth upgrade path for next-generation customer products.

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