



3L Parallel C

by 3L Ltd.

Software Overview

3L Parallel C for TMS320C4x is the easy-to-use parallel-programming system for multi-processor DSP. The package comes with the well-known compilation tools from Texas Instruments and adds to them all the functionality required for parallel processing. Features include multi-tasking, multi-threading, inter-processor and inter-task communication and control of interrupts, DMA, timer, and communication ports. All this low-level control is accessible from the C environment, hence allowing faster development and leaving more time for application code design.

Parallel C includes configuration utilities that load a network of 'C40s with complex multiprocessor applications. Parallel C takes care of all parallel-processing system services allowing you to concentrate on the application.

By combining a familiar language with powerful data communication, synchronization, and network configuration functions, 3L Parallel C allows easy implementation of current and future signal processing algorithms on parallel DSP systems.

Features and Benefits

- | | |
|--|---|
| <ul style="list-style-type: none">• Easy programming of parallel DSP• Includes standard TI ANSI C• Multi-tasking, multi-threading micro-kernel | <ul style="list-style-type: none">• Low-level manipulation of DMA, interrupts, and timers• Host I/O available to any task on the network |
|--|---|

Processor and System Requirements

- **Devices supported:** TMS320C4x
- **Host platform:** PC, NEC PC, SPARC, VMEbus, VxWorks

Availability

- Now

Company Background and Contact Information

3L Ltd, of Edinburgh, Scotland, is an established software-development firm concentrating on DSP parallel-processing tools. Established in 1987, it launched the very first parallel-DSP development software, Parallel C for the 'C4x, in 1992. It has since released two versions with version 2.0 being available since August 1995. 3L works with a wide range of 'C4x system manufacturers to maximize the number of supported boards, a list of these is available from 3L.

Contact: Stuart McGarrity
3L Ltd
86-92 Causewayside
Edinburgh
EH9 1PY
Scotland
+44 131 662 4333
Fax: +44 131 662 4556
e-mail: threeL@threeL.co.uk
<http://www.jovian.com/3L/index.html>