

Tbug V1.0.22 Release Note

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This document is intended for users of Tbug, 3L's transputer debugger, who are upgrading to V1.0.22. It lists changes made to the software since V1.0.17.

This release note is not intended as a reference manual for the new features added in this release of the software. For detailed information about particular features, please refer to the *User Guide* supplied with this release.

The most important new features of this release are:

- Tbug now supports Fortran data types. See section 7.3 of the *User Guide*.
- The debugger better supports array variables and includes the ability to edit elements of arrays as in the ordinary variables window. See section 7.3.5.
- In Tbug V1.0.17 attempts by a thread to write to memory outside its own workspace would be trapped. Memory protection can now be switched on and off globally, or thread by thread. Turning off memory protection allows the use of memory-mapped I/O devices from within Tbug. See chapter 10.
- Previously, Tbug assumed that, because all tasks are emulated on the root transputer, communication would always use internal channels—hard link I/O was not allowed. This release now allows communication between a system being debugged

and an external device connected to the root transputer's hard links. This facility can be switched on and off globally, or thread by thread. It does not affect ordinary communication between user tasks. See chapter 10.

- The floating-point registers window has been widened to allow a greater degree of precision to be displayed.