5.1.2.1 GNU Tools

The HDS ViewStation Developer's Kit consists of a set of GNU tools (v2.0.1) for software development and debugging and a cross-compiler for the Intel 960.

The GNU tools are public domain tools and the Intel compiler is distributed under license from Intel; both are available on a QIC150 tape (or other formats). HDS currently supports the tools in the Sun environment, though they are available on other platforms. If you use another platform, the tools should be correctly installed and operational before you start; consult with HDS if you have any questions.

5.1.2.2 HDS Libraries

The Developer's Kit also contains various libraries and include files needed for the compilation; these include the standard X11 libraries, the Xt Intrinsics and Xm Motif libraries, a Unix compatible C library and a floating point library. These are currently X11R5 libraries and Motif 1.2.3 versions.

There are also sample client files and other examples, including sample makefiles for the ico, maze, and Motif_hello programs.

The ViewStation uses standard X libraries and the Motif toolkit. These are integral parts of the ViewStation server code. Most system calls and procedures are supported so compilation should proceed with no problems. If you have problems with the compilation, especially because of missing libraries, etc. you should contact HDS Technical Support directly.

HDS ViewStation Developer's Kit

This section gives an overview of the HDS ViewStation Developer's Kit and its use.

5.0 Section 5.0 - HDS ViewStation Developer's Kit

5.1 HDS ViewStation Developer's Kit Overview

HDS's Developer Kit allows users to compile their application program source code to run on the ViewStation's Intel 960 processor as a local client. The Developer Kit allows you to create the executable file for inclusion in the HDSware software.

5.1.1 HDS ViewStation Architecture

The HDS ViewStation uses a powerful RISC processor, the Intel 960, and an internal Unix micro-kernel architecture that make it possible to run a number of client application programs on the ViewStation. This offers the ViewStation user several important advantages:

- customization of client applications
- distribution of processing load to ViewStations on the network
- conservation of host memory and CPU resources
- conservation of network bandwidth
- improved response and control for the user

The ViewStation Developer's Kit contains tools that let you prepare client applications to run on the ViewStation. It consists of two tapes containing the tools, libraries, compilers, and sample files you need to work.

5.1.2 Developer's Kit Contents

The Developer's Kit consists of two parts, the GNU tools and the HDS libraries. A separate set of documentation is provided.