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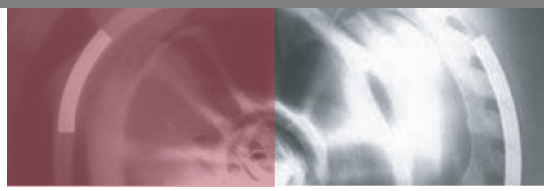
SYSTEMS

White Paper

Technical



Software Development MAX2000

Software Development MAX2000™

November,2005

Overview

This documents was intended to outline the following:

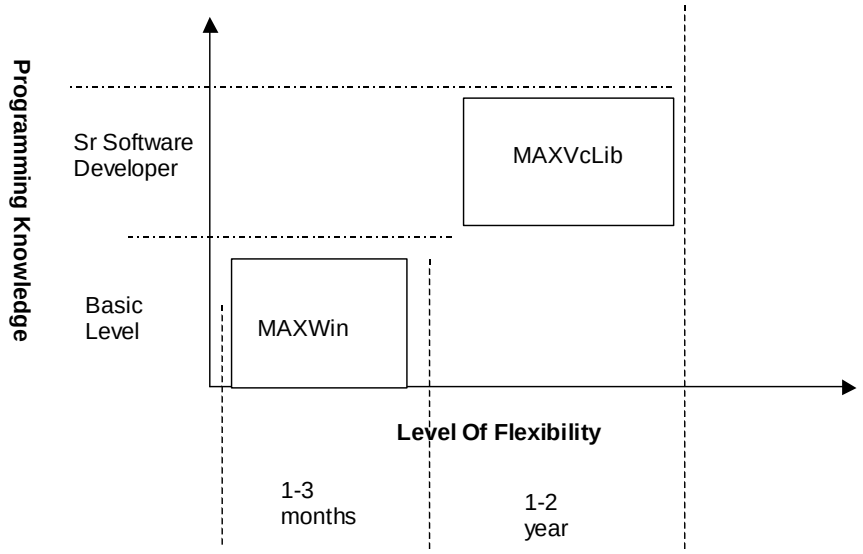
1. Different programming options available to the user.
2. Expected level of software expertise.

Introduction

Agile has 2 packages available to help the user invoke functionality from the MAX2000 motion controller.

1. MAXVcLib
2. MAXWin

The following Table visually describes the packages flexibility and expected programming knowledge.



MAXVcLib

MAXVcLib is a Windows C++ library that generates network packets for the MAX2000 motion controller. MAXVcLib is a thread safe library that was developed for the Windows operating system.

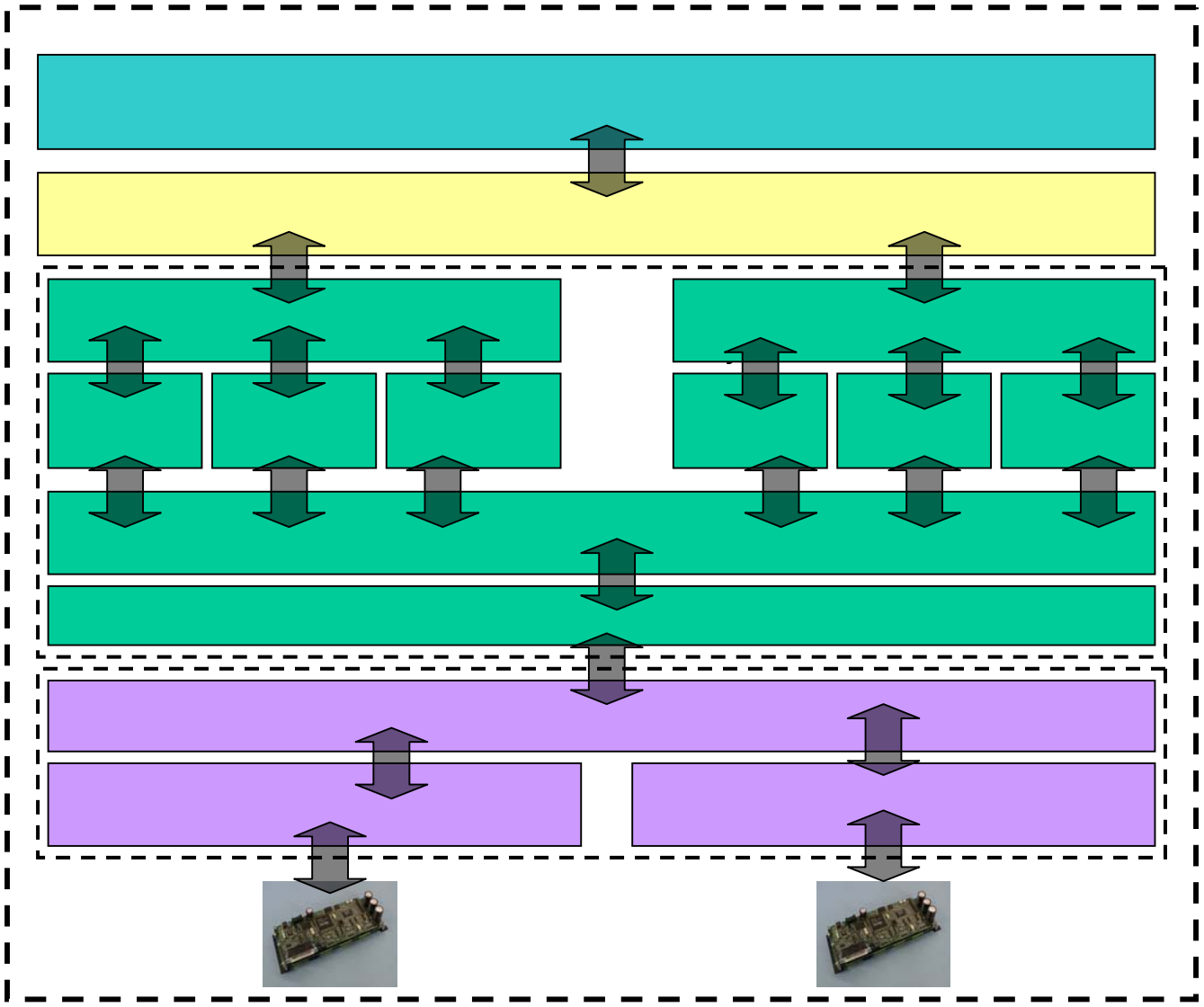
Each MAXVcLib function produces one packet that can be sent over a network to the controller. Examples of using the MAXVcLib are provided with the Library.

Key benefits of the MAXVcLib library include:

- Decreases system development Time
- User can use Microsoft Visual C++ development and debugging environments.
- Fast application execution.
- A rich instruction set, or commands set, is provided to give complete access to the controller.

Programming Knowledge: Advanced programmer, with the understanding of C/C++ language and a broad understanding of programming concepts.

Typical Software Architecture



MAXWin

MAXWin is a Windows 2000/XP graphical environment, which is universal across Agile Systems digital power products.

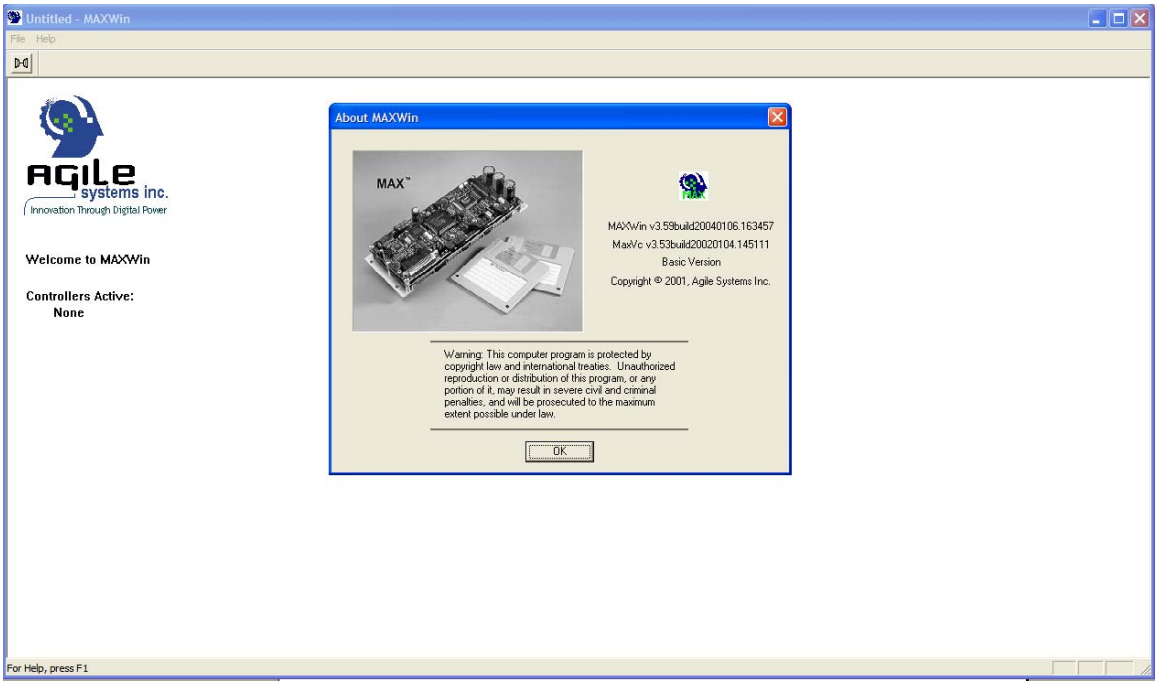
The following list describes the key features:

- Quickly set up, tune and program the controller.
- An oscilloscope tool to data log system registers real time
- Auto-calculates the optimum current loop settings, which allows the use of any motor type.
- Performs cyclic motion to exercise the axes
- View and set inputs and outputs

Key benefits of MAXWin include:

- Decreases system development Time
  - Invoke advanced features without any programming skills
  - Build from MAXVcLib library

- **Example of MAXWin**



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