

# Overview

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## MaXXviewclass

**MaXXviewclass** is MaXX Interactive's SGI IRIS ViewKit compatible C++ Xt/Motif development framework implementation. **MaXXviewclass** is a fork from [ViewClass](#) (many years ago) which features enhancements for supporting modern Desktop and Window Manager interactions.

## MaXXvue

**MaXXvue** is a collection of modern C++ extensions to [MaXXviewclass](#), a SGI ViewKit compatible implementation. **MaXXvue** main focus is on providing components for building modern visual and interactive applications. Secondly, **Vue** provides components for easy integration of **MaXXlinks** (messaging), **MaXX GPES** (general purpose execution service) and **MaXX Settings** (configuration management).

## MaXXlinks

**MaXXlinks** is MaXX Interactive high performance inter-component and inter-application communication development framework featuring messaging, synchronous and asynchronous communications, multi-protocols transport layer and for rapid modern high performance applications. Inter process zero-copy messaging is part of **MaXXlinks** arsenal of high performance optimization that leverages Shared Memory and ultra fast inter process messaging sub-system.

## MaXXgpes

**MaXX General Purpose Execution Service**, or **GPES** for short, is a high performance tasks execution service that takes its inspiration from High Performance Computing (HPC) system. **MaXXgpes** provides robust and consistent computation solutions to common and repetitive tasks while providing high throughput and balanced utilization of system resources.

## MaXXscope

**MaXXscope** is a Smart Application and Service Orchestration for multi-core systems that supports CPU core partitioning for maximum performance and efficiency. With **MaXXscope**, a system's CPU cores can be allocated, grouped or reserved to execute/run processes based on configurable characteristics such as: process type, parent PID, group and other custom tags provided by **MaXXsettings** Configuration Management. **MaXXscope** will make even more sense when we start to run CPUs with big.LITTLE cores.

## MaXXsettings

**MaXXsettings** is a dynamic configuration management subsystem designed from the ground up with simplicity in mind while not sacrificing flexibility and extensibility. **MaXXsettings** comes with its own CLI interface allowing simple management, automation via scripting, inline-query and easy application integration. **MaXXsettings** also provides Java and C++ binding making it super easy to integrate within most modern applications. **MaXXsettings** allow the definition of System wide setting, we call them **Instruments**, and user's overridables called **User Preferences**.

### **MaXXmonitor**

**MaXXmonitor** is a Centralized Hardware and Application monitoring with metric aggregation and a client/server model in mind. **MaXXmonitor** is responsible of gathering hardware, system and application metrics (static and real-time) and make them available via a secured and efficient delivery mechanism such as [MaXXlinks SharedMemoryPayload](#). The main goal is to have only one process that does the metrics acquisition and many processed that consumes and displays the information in different ways.

### **MaXXfs**

**MaXX File Service (MaXXfs)** is a High Performance and multi-threaded file-system service optimized for multi-core systems that supports CPU core affinity and partitioning for maximum IO performance and efficiency.

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