UCio

UControl BV

4USE SRO

A robust and efficient platform for PC based machine and process control.

INTRODUCTION

Data gathering, storage, presentation and communication have become a more and more crucial requirement in nowadays control solutions.

PC processing power has increased tremendously. And critical real-time control is often delegated to common of the shelf controllers, for example to positioning controllers.

It is expected that functionalities like logging, monitoring, simulation and hardware diagnosing are of the shelf.
That's why we introduced UCio (UControl i/o), the jump start PC based control platform.

KEY FEATURES

The key features of UCio are:

- Proven robustness in 24/7 control environments
- No software distribution license costs
- A single PC platform for control (no PLC)
- Covers core elements for control: i/o, data, communication and UI
- Supporting a single code base for an unlimited amount of hardware configurations
- Application software development and hardware selection can be decoupled
- Of the shelf tooling for logging, monitoring, simulation and hardware diagnosing
- Templates for finite state machines and a control framework for commands and timing
- Covers protection of intellectual property: licensing, signing, obfuscation

TECHNICAL DETAILS

- Field bus oriented i/o for example:
  - MODbus (Beckhoff, SIGMATEC, Pilz)
  - CANopen (Lenze)
- Black board architecture, completely event driven
- XML configuration files, for:
  - Bus module hardware definitions
  - Machine i/o configuration
  - Data definitions (process data, calibrations)
- …

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- Primary target OS: Windows (Embedded) 7
- .NET Framework
- SQL CE data stores
- Application deployment with Windows installer
- Microsoft Visual Studio development environment

REFERENCES

Multiple axis robot for handling buckets with fluids in a two sided storage system.

Process control for thermal modification of wood.

UCONTROL

UControl and her Czech partner 4USE offer NEARSHORING^{PLUS} services for technical software development.
In addition UControl offers software products, like UCio.

UCio is in-house developed and is operational at several sites.
We can offer UCio in combination with our NEARSHORING^{PLUS} service.

INTERESTED?

Please feel free to contact us.

We will be pleased to determine what UCio will bring to your business.

CONTACT

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