

Statement of Work

Porting Prosilica SDK to ARM9 CPU Running Linux 2.4

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1. Introduction

Prosilica Inc produces a line of high performance CCD and CMOS cameras that can be controlled and sampled via ethernet. To support their customers in software development, they produce a Software Development Kit (SDK) which includes (1) a software run-time library (run-time library) that allows their customers to develop software to control and download pictures from their camera, and (2) a Sample Viewer program, which is a complete application which allows end-users to control their cameras without writing software.

Prosilica makes their SDK available for computers that run the Microsoft Windows, Linux, or QNX operating systems; but only for Intel x86 or PowerPC processors (CPU).

The Monterey Bay Aquarium Research Institute (MBARI) wishes to engage Prosilica Inc to port their SDK to the ARM9 CPU family running the Linux 2.4 kernel.

2. Specification

- Prosilica will port their SDK, including the run-time library, to run on a Technologies TS-7200 ARM9 CPU board running Debian Linux with a Linux 2.4 kernel.
- MBARI will provide Prosilica with one Technologies TS-7200 CPU board to support this work. Prosilica will return the TS-7200 board to MBARI at the completion of the work.
- Prosilica will test the resulting software to ensure correct operation with Prosilica's GC1380 and GC2450C color cameras, and that they run correctly at a minimum acquisition rate of one frame per second.
- Prosilica will test the resulting SDK using the same test suite that they use to validate their other SDK products.

3. Dates

Prosilica will undertake this work within 30 days of accepting MBARI's purchase order, and will complete the task and deliver the resulting SDK to MBARI within 90 days of accepting MBARI's purchase order.