

Video System

Short Status Report

Completed Tasks

- assisted Cosylab in Java-based video analysis (data transport)
- save video images (source: CF_IMAGE format) to PNG files
 - specification slightly fine-tuned (based on implementation)
 - available, working Java and C++ package / sourcecode

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Ongoing Tasks

- Working on sequences of images on disk
 - historically proprietary formats were invented and used
 - new design: a set of PNG files in a ZIP file container
 - no ZIP-compression, PNG files are stored as they are
 - images and optional background image(s)
 - wide os integration of ZIP files/folders makes it easy for anyone to work with
 - draft specification ready
 - PNGZIP saving in C++ first implementation working
 - loading of sequence in C++ as well as Java implementation about to be started

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Ongoing Tasks #2

- David: Implementation of generic/unique slow control server for analogue cameras (type: JAI M10)
 - old camera types used at PITZ (RS232-based communication for gain, shutter speed adjustments etc.)
 - generic/unique slow control specification had to be fine-tuned a little bit
 - TINE server in Java, able to speak to cameras via physical available COM-ports or via TCP communication to terminal gateway (TCP <-> RS232)

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Foreseen Tasks (July/August)

- complete ongoing tasks
 - Slow Control for JAI M10
 - if time permits it: PNGZIP
- David: improvement/enhancement of class design of `de.desy.tine.types.IMAGE (CF_IMAGE)` class
- test and make work interoperability of image data transport (next week I come to Hamburg for this)
- bring any core components of VSv3 to beta state
 - in order to be installed and tested in production environment (PITZ, Petra3 + preaccel, EMBL HH, Hasylab)
- work on TINE-based Image Archiving
in simple words: `CF_IMAGE` -> Archive Server

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