Technical specification "Update of SVI Hyugens Professional software package for restoration of microscopic image data"

Currently license:

* HuPro-4.5-wcn-s8-btvACg0p8-mp-eom2017Jan01-af4912819e0e25e1-{kozubek@fi.muni.cz}-9fa03ae96cbd744424b3
* HuScript-4.5-wcn-s8-btvACg0-mp-eom2017Jan01-af4912819e0e25e1-{kozubek@fi.muni.cz}-2899127e67985d1b70c7

Specification

Upgrade to the latest version of Huygens Professional
Support for scripting
Support for OS Linux
Selected optical systems:
  + widefield & brightfield
  + confocal
  + spinning disc
Support for time lapse analysis
Server version: minimum usage of 2 sockets and 12 physical cores (either single or hyper-threaded, 64 bit)
Support for
  + standard microscopic image file formats (*.tif, *.tiff, *.ics, *.hd5, *.ome)
  + additional file formats (Zeiss ZVI, Zeiss CZI, Zeiss LSM, Nikon ND2, Leica LIF, Olympus OIF, Olympus VSI, Metamorph STK, Abberior Imspector MSR)
Support for visualization & analysis:
  + rendering the object surfaces
  + computation of standard colocalization coefficients (Pearson, Spearman, intersection coefficients, ...)
  + object analysis
  + degree of object overlap
Increase the performance of current Huygens license with CPU and GPU acceleration:
  + CPU: minimum usage of 12 physical CPU cores, or 24 logical cores when hyper-threaded.
  + GPU: minimum usage of 2 Large GPU cards
  + support for NVIDIA CUDA enabled cards
Maintenance and upgrades to all above-mentioned items for 1 year