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CTPL ThreadPool Library

PC-DMIS uses the open-source CTPL ThreadPool Library to process event handling in thread pools instead of the more time-consuming approach of handling them individually.

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Hfb / Miniball Library

PC-DMIS uses the hfb / miniball library for some of its computations.

For details on the hfb / miniball library, see <https://github.com/hbf/miniball>.

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Tesseract OCR

PC-DMIS uses the open-source Tesseract OCR (Optical Character Recognition) to recognize Feature Control Frames (FCF).

For details on Tesseract OCR, see <https://sourceforge.net/projects/tesseract-ocr/>.

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Crash Reporting Tool

PC-DMIS uses this crash reporting tool:

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Leptonica

PC-DMIS uses the open-source Leptonica library for image processing during recognition of Feature Control Frames (FCF). For details on Leptonica, see <http://www.leptonica.org/>.

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NLog

PC-DMIS uses a free logging platform called NLog. For details on NLog, see <https://nlog-project.org/>.

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OMPL

PC-DMIS uses the open-source OMPL (Open Motion Planning Library) for some of its Auto Insert Moves calculations. For information on OMPL, see <https://ompl.kavrakilab.org/index.html>. Citations: Zachary Kingston, Mark Moll, and Lydia E. Kavraki, "Decoupling Constraints from Sampling-Based Planners," in *International Symposium of Robotics Research*, Puerto Varas, Chile, 2017.

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Ipsolve information

PC-DMIS uses a free, open-source package called `lp_solve` (or `lpsolve`) that is distributed under the GNU Lesser General Public License (LGPL).

Ipsolve citation data

Description: Open source (Mixed-Integer) Linear Programming system

Language: Multi-platform, pure ANSI C / POSIX source code, Lex/Yacc based parsing

Official name: `lp_solve` (alternatively `lpsolve`)

Release data: Version 5.1.0.0 dated 1 May 2004

Co-developers: Michel Berkelaar, Kjell Eikland, Peter Notebaert

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CreateJS

The 'What's New' feature in PC-DMIS uses this suite of modular libraries and tools which enable rich interactive content on open web technologies via HTML5.

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InteractiveDataDisplay.WPF

PC-DMIS uses the open-source InteractiveDataDisplay.WPF to plot roughness profiles.

For details, see <https://github.com/Microsoft/InteractiveDataDisplay.WPF> and <https://github.com/Microsoft/InteractiveDataDisplay.WPF/blob/master/LICENSE>.

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js-cookie

The PC-DMIS Help documentation, available on our docs.hexagonmi.com website, uses this free and open source Javascript library.

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For details on the Newuoa algorithm, see <http://mat.uc.pt/~zhang/software.html>.

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