Licensing with QisMLib

(Web Page: http://www.artwork.com/gdsii/qislib_mt/index.htm)

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Licensing QisMLib APIs

API (license code) API header file	No. licenses required (per active process)	Class::Operation that acquires/releases a license (header file)

QisMLib
(11003)
qismlib.h
	ONE license to use the QisMLib system, load multiple GDSII/OASIS/DBLOAD files and get file information such as cells, layers, counts etc.	`OUT ::QisMLib_initialize_once`
		`IN  ::QisMLib_close_once`
		`(qismlib.h)`

QisMExploder
(11027)
qismexploder.h
	ONE license **PER ACTIVE INSTANCE** of the exploder object that can query vector data (boundaries, paths, texts, references) in a given view	`OUT QisMFile::Create_exploder`
		`IN  QisMFile::Destroy_exploder`
		`(qismfile.h)`

QisMBool
(11047)
qismbool.h
	ONE license **PER ACTIVE INSTANCE** of the boolean object that can perform union/ difference/ xor/ intersection/ clipping/ sizing etc. on sets of polygons	`OUT QisMBool::Create_instance`
		`IN  QisMBool::Destroy_instance`
		`(qismbool.h)`

QisMClipper
(11047)
qismclipper.h
	ONE license **PER ACTIVE INSTANCE** of the clipper object that can test intersection and clip a path or boundary against a set of rectangular or polygonal windows	`OUT QisMClipper::Create_poly_instance`
		`    QisMClipper:: Create_box_instance`
		`IN  QisMClipper::Destroy_instance`
		`(qismclipper.h)`

QisMDraw
(11057)
qismdraw.h
	ONE license **PER ACTIVE INSTANCE** of the drawing object (one object per file) that can render a view to the client screen or as a GIF/XPM/Bitmap image	`OUT QisMDraw::Open_draw`
		`IN  QisMDraw::Close_draw`
		`(qismdraw.h)`

QisMNtrc
(11059)
qismntrc.h
	ONE license **PER ACTIVE INSTANCE** of the net-tracer object that can trace nets of connected METAL and VIA polygons over a pre-defined stackup	`OUT QisMNtrc::Open_trace`
		`IN  QisMNtrc::Close_trace`
		`(qismntrc.h)`

QisMLayerSynth
(11069)
	ONE license **PER ACTIVE INSTANCE** of the synthesizer object that can generate new layers by evaluating an expression of boolean operations	`OUT QisMLayerSynth::New_synthesizer`
		`IN  QisMLayerSynth::Delete_synthesizer`
		`(qismlayersynth.h)`

qismlayersynth.h	between layers	

QisMClipExtract (31209) qismclipextract.h	ONE license **PER THREAD** used to extract tiny clips of data to GDSII/OASIS/TIFF/BMP files on disk or polygon/image buffer in memory	`OUT/IN QisMClipExtract::Extract_image`
		`        QisMClipExtract::Extract_polygons`
		`        QisMClipExtract::`
		`           Extract_synthesized_polygons`
		`(qismclipextract.h)`

QisMRaster (14827) qismraster.h	ONE license **PER ACTIVE INSTANCE** of the rasterizer object that can generate high resolution monochrome bitmaps from a given view	`OUT QisMRaster::Create_rasterizer`
		`IN  QisMRaster::Destroy_rasterizer`
		`(qismraster.h)`

QisMBoolFiles (11071) qismboolfiles.h	ONE license **PER THREAD** used to process a queue of windows between the two files	`OUT/IN QisMBoolFiles::Booleanize_two_files` `(qismboolfiles.h)`

QisMHExtract (11083) qismhextract.h	ONE license **PER ACTIVE INSTANCE** of the extractor object that can extract hierarchical data from a given view	`OUT QisMHExtract::Create_extractor`
		`IN  QisMHExtract::Destroy_extractor`
		`(qismhextract.h)`

Licensing command-line apps based on QisMLib

Application	Objective	No. licenses required (per active process)
gds2dbload	Convert GDSII to DBLOAD	1 x QisMLib (11003)
dbload2gds	Extract GDSII from DBLOAD	1 x QisMLib (11003)
layersynthapp	Create a GDSII output with one or more new layers synthesized by one or more expressions of boolean operations between layers in a GDSII/OASIS/DBLOAD input file	1 x QisMLib (11003) 1 x QisMLayerSynth (11069)
clipextract	Extract lots of tiny clips of data from a GDSII/OASIS/DBLOAD input as GDSII/OASIS/TIFF/BMP files on disk	1 x QisMLib (11003) N x QisMClipExtract (31209) where N is the number of window/exploder threads (first component of -thrnum:)
qismntrcapp	Extract nets (as GDSII files) of connected METAL and VIA polygons over a pre-defined stackup and an input GDSII/OASIS/DBLOAD file	1 x QisMLib (11003) 1 x QisMNtrc (11059)

nextgenraster 2/qismrip	Generate large high resolution monochrome bitmaps from a GDSII/OASIS/DBLOAD input to TIFF/BMP/RAW files on disk	1 x QisMLib (11003) 1 x QisMRaster (14827)
qismboolfilesapp	Perform boolean operations on a set of windows between two GDSII/OASIS/DBLOAD files to generate a GDSII output per window	1 x QisMLib (11003) N x QisMBoolFiles (11071) where N is the number of window/exploder threads to be used (-ntw:)
qismxor2files	Compare two GDSII/OASIS/DBLOAD files for boolean equivalence (XOR)	1 x QisMLib (11003) N x QisMBoolFiles (11071) where N is the number of window/exploder threads to be used (-ntw:)
hextractor 4	Extract hierarchical data (GDSII/OASIS) from a GDSII/OASIS/DBLOAD input file with various options for clipping	1 x QisMLib (11003) 1 x QisMHExtract (11083)