

Milkyway 2005.09 and OpenAccess 2.2.5 Domain Coverage

Updated from the original presented on 6/20/06



This table summarizes the scope of data that can be accessed in Milkyway and OpenAccess via public APIs. A legend for the symbols used can be found at the bottom of this document.

Updates to this table will be posted at <http://www.voom.net/publications/MWOACoverage.pdf>.

Netlist	Milkyway		OpenAccess		
	C	Scheme and TCL	C++	TCL	Python
Cell	✓	✓	✓	✓	✓
Cell Instance	✓	✓	✓	✓	✓
Instance Port	✓	✓	✓	✓	✓
Net	✓	✓	✓	✓	✓
Port	✓	✓	✓	✓	✓
Bus, Bundle			✓	✓	✓
Logical Hierarchy	✓		✓	✓	✓
Topology	Milkyway		OpenAccess		
	C	Scheme and TCL	C++	TCL	Python
Arc			✓	✓	✓
Donut			✓	✓	✓
Dot			✓	✓	✓
Ellipse			✓	✓	✓
Line			✓	✓	✓
Path	✓	✓	✓	✓	✓
Path Variable End Extension			✓	✓	✓
Wire Segment	✓	✓	✓	✓	✓
Polygon	✓	✓	✓	✓	✓
Rectangle	✓	✓	✓	✓	✓
Text	✓	✓	✓	✓	✓
Parameterized Text			✓	✓	✓
Error Marker	✓	✓	✓	✓	✓
Timing	Milkyway		OpenAccess		
	C	Scheme and TCL	C++	TCL	Python
LRC Parasitics			✓	✓	✓
Timing Constraints			Beta		
Timing Graph				Silicon Navigator	

Place and Route	Milkyway		OpenAccess		
	C	Scheme and TCL	C++	TCL	Python
Multi-Segment Route			✓	✓	✓
Route Type	▲	▲, Astro▼	✓	✓	✓
Gcell Pattern			✓	✓	✓
Global Route	x		✓	✓	✓
Cell Placement Region	✓	✓	✓	✓	✓
Hard Placement Blockage	✓	✓	✓	✓	✓
Soft Placement Blockage	✓	✓	Requested per Enhancement #844		
Routing Blockage	✓	✓	✓	✓	✓
Variable Route Rule		Astro	✓	✓	✓
Floorplan	Milkyway		OpenAccess		
	C	Scheme and TCL	C++	TCL	Python
Base Array	▲	✓	✓	✓	✓
Base Array Site/Tile	▲	✓	✓	✓	✓
Cell Site/Tile Pattern	▲	✓	✓	✓	✓
Row	✓	✓	✓	✓	✓
Routing Tracks	▲	Astro	✓	✓	✓
Technology	Milkyway		OpenAccess		
	C	Scheme and TCL	C++	TCL	Python
Layers	▲	▲	✓	✓	✓
Design Rules			✓	✓	✓
Custom Via			✓	✓	✓
Standard Via	▲	▲	✓	✓	✓
Design Management	Milkyway		OpenAccess		
	C	Scheme and TCL	C++	TCL	Python
Library	✓	✓	✓	✓	✓
Reference Library	✓	✓	✓	✓	✓
Cell	✓	✓	✓	✓	✓
Attached File	✓	✓	✓	✓	✓
Other Domains	Milkyway		OpenAccess		
	C	Scheme and TCL	C++	TCL	Python
Pcells			Cadence	Cadence	CiraNova
Wafer			✓	✓	✓
Database Extensions	Milkyway		OpenAccess		
	C	Scheme and TCL	C++	TCL	Python
Property	✓	✓	✓	✓	✓
Add Field to Object			✓	✓	✓
Add Object			✓	✓	✓
Observer			✓	✓	✓

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Translators	Milkyway	OpenAccess
DEF	x	✓
EDIF	✓	
GDSII	✓	✓
LEF Tech	≈	✓
LEF Cells	✓	✓
Milkyway	✓	Voom
OASIS	✓	OASIS Tooling
PDEF	✓	
SPEF		✓
Verilog Structural	✓	✓
Verilog Behavioral		Silicon Navigator
VHDL	✓	
Platforms	Milkyway	OpenAccess
AMD64 RHEL 3	✓	✓
AMD64 SuSE 9	✓	Silicon Navigator
x86 RHEL 3	x	✓
x86 SuSE 9	✓	Silicon Navigator
Itanium RHEL 2.1	✓	✓
SPARC 32 Solaris 8	✓	✓
SPARC 64 Solaris 8	✓	✓
HPPA HP-UX 11	✓	✓
AIX 5.1		✓
Windows 2000/XP		✓
Mac OS X		Neon Technology

Legend

- ✓ Full read/write support
- ▲ Read support only
- ▼ Write support only
- Astro Requires Astro license—no MAP-in access
- ▲, Astro ▼ Read with MAP-in, write requires Astro license
- x Bug
- ≈ Partial support
- (blank) Not supported

The author would like to thank the following people for their suggestions,
 Steve Potter, Silicon Navigator
 Michaela Guiney, Cadence
 Donald Amundson, LSI Logic
 Laurence Brevard, Synopsys