Milkyway 2005.09 and OpenAccess 2.2_p034 Domain Coverage

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 TCL	C++	TCL	Python
Cell	✔	✔	✔	✔	✔
Cell Instance	✔	✔	✔	✔	✔
Instance Port	✔	✔	✔	✔	✔
Net	✔	✔	✔	✔	✔
Port	✔	✔	✔	✔	✔
Bus, Bundle			✔	✔	✔
Logical Hierarchy	✔		✔	✔	✔

Topology	Milkyway		OpenAccess		
	C	Scheme 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 TCL	C++	TCL	Python
LRC Parasitics			✔	✔	✔
Timing Constraints			Beta		
Timing Graph			Silicon Navigator		

Place and Route	Milkyway		OpenAccess		
	C	Scheme TCL	C++	TCL	Python
Multi-Segment Route			✔	✔	✔
Route Type	▲	▲, Astro▼	✔	✔	✔
Global Route	✘		✔	✔	✔
Cell Placement Region	✔	✔	✔	✔	✔
Placement Blockage	✔	✔	✔	✔	✔
Routing Blockage	✔	✔	All routeTopologies or none		
Variable Route Rule		Astro	✔	✔	✔

Floorplan	Milkyway		OpenAccess		
	C	Scheme TCL	C++	TCL	Python
Base Array	▲	✔	✔	✔	✔
Base Array Site/Tile	▲	✔	✔	✔	✔
Cell Site/Tile Pattern	▲	✔	✔	✔	✔
Row	✔	✔	✔	✔	✔
Routing Tracks	▲	Astro	✔	✔	✔

Technology	Milkyway		OpenAccess		
	C	Scheme TCL	C++	TCL	Python
Layers	▲	▲	✔	✔	✔
Design Rules			✔	✔	✔
Custom Via			✔	✔	✔
Standard Via	▲	▲	✔	✔	✔

Design Management	Milkyway		OpenAccess		
	C	Scheme TCL	C++	TCL	Python
Library	✔	✔	✔	✔	✔
Reference Library	✔	✔	✔	✔	✔
Cell	✔	✔	✔	✔	✔
Attached File	✔	✔	✔	✔	✔

Other Domains	Milkyway		OpenAccess		
	C	Scheme TCL	C++	TCL	Python
Pcells			Cadence	Cadence	CiraNova
Wafer			✔	✔	✔

Database Extensions	Milkyway		OpenAccess		
	C	Scheme TCL	C++	TCL	Python
Property	✔	✔	✔	✔	✔
Add Field to Object			✔	✔	✔
Add Object			✔	✔	✔
Observer			✔	✔	✔

Translators	Milkyway	OpenAccess
GDSII	✔	✔
LEF Tech	≈	✔
LEF Cells	✔	✔
DEF	✘	✔
Verilog Structural	✔	✔
Verilog Behavioral		Silicon Navigator
VHDL	✔	
EDIF	✔	
SPEF		✔
Milkyway		Voom

Platforms	Milkyway	OpenAccess
AMD64 RHEL 3	✔	✔
AMD64 SuSE 9	✔	Silicon Navigator
x86 RHEL 3	✘	✔
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		Tim Burks

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
✘	Bug
≈	Partial support
(blank)	Not supported

Thanks for your suggestions and corrections,

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