



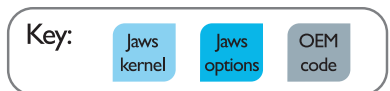
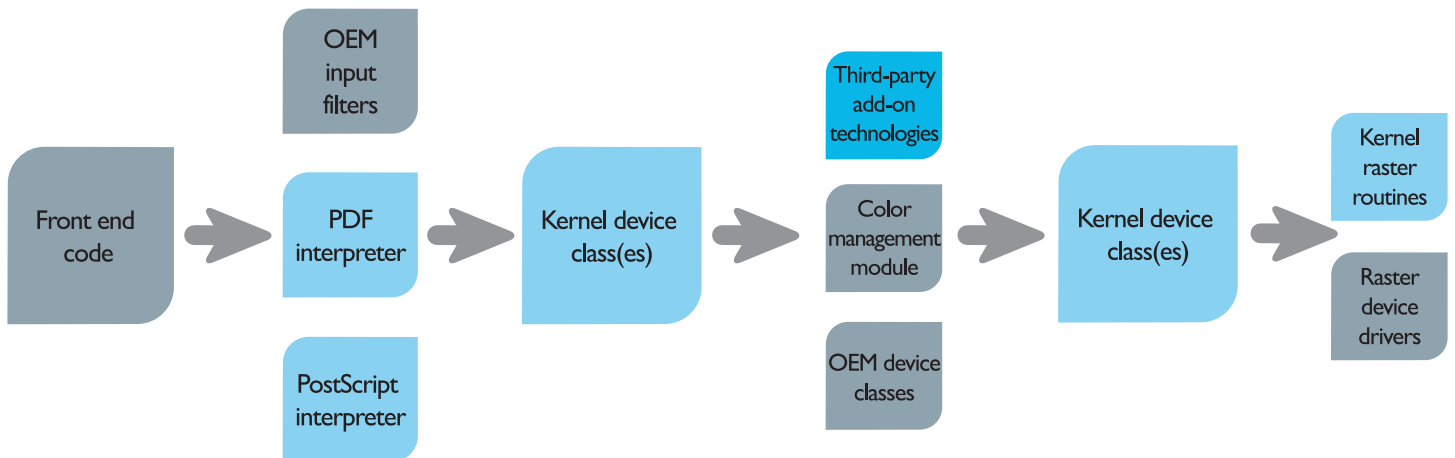
Jaws® 2002.6 PostScript® and PDF Language Compatible Interpreter

Jaws® is a configurable PostScript® Language Level 3 and PDF 1.7 compatible interpreter, designed to run on a wide variety of different platforms and operating systems. Aimed at the whole gamut of rendering applications, from file conversion to digital color printing, Jaws has a highly developed and very flexible API (Application Programming Interface). OEMs get full access to the graphics pipeline via the unique Jaws "device class interface" and

can implement a wide variety of features such as custom screening, image enhancement algorithms, and color management.

Jaws is able to natively interpret and render PDF 1.7 input files, without having to first convert the data to PostScript Language files. Direct PDF rendering means smaller files, faster processing, and unique capabilities for page-independent output.

Jaws Interpreter Software components of a Jaws based RIP.



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Accessibility

Jaws' "device drivers" provide the interface between the rasterizer and the output device, be it a printer controller, interface card or disk file. Source code for various rendering architectures is provided with the Jaws Interpreter, which OEMs can modify for a particular device.

Flexibility

Provides access to graphics before scan conversion, allowing OEMs to add their own custom solutions for screening, image enhancement algorithms, color management, transparency blending and providing support for non-raster output such as PDF or object-based metafiles.

Best-in-Class Value Add

Designed to allow OEMs to use third-party add-on technologies that best fit their products and markets. This makes it even easier for Jaws OEMs to develop modular, best-in-class printing solutions for their specific target markets.

Jaws OEM Standard Deliverables

Jaws Kernel

The Jaws Interpreter provides PostScript Language and PDF kernel technology with a complete API for integration in the OEM's product. The Jaws Interpreter supports an open systems approach to building a RIP and includes:

- Jaws binary libraries/object files (for Solaris™, Windows®, Mac® OS X and Linux®)
- Windows DLL
- Sample source code for various generic "device drivers".

Jaws OEM Optional Modules

3rd Party Open Interface for CMM

Provides support for 3rd party color management modules via the unique Jaws Device Class modular interface.

Agfa Screening Module

Enables OEMs to use Agfa Balanced Screening and CristalRaster (requires separate license agreements with Agfa Imaging).

Morisawa Kanji Font Module

The Morisawa SpecialRun operator is implemented, allowing OEMs to use Morisawa fonts (requires separate license agreements with Morisawa).

Global Graphics PostScript 35 font set

Global Graphics standard PostScript 35 Font Set available under license from Shiva Networks Inc. OY (requires separate license agreement with Global Graphics).

SOFTWARE SPECIFICATIONS

Supported Platforms and Build Environments

Platform	Build Environment
Solaris-Sparc™ 32-bit, Solaris-Sparc 64-bit	Forte 7
Windows® 32-bit	VC++ 7
Windows 64-bit	VC++ 8
Mac® OSX 32-bit PPC	XCode 2.4
Mac OSX 32-bit Intel, Mac OSX 64-bit Intel	XCode 2.4 (gcc 4.x)
Linux® 32-bit Intel, Linux 64-bit Intel	gcc 4.x

File Format Support

PostScript Language level 1, 2, 3 (3011 & 3015)
PDF 1.2, 1.3, 1.4, 1.5, 1.6, 1.7

SOFTWARE SPECIFICATIONS (CONT'D)

Font Options	35 Type 1 as (CFF)* Type 0, Type 1, Type 2, Type 3, Type 42 Multiple master fonts TrueType® fonts, directly and as Type 42 CID fonts (CID Font Type 0, 1, 2, 4) Morisawa OEM encrypted Kanji fonts** Monotype Imaging MicroType II PostScript 3 136 font set***
Graphics Support	separated/composite output: monochrome 1 bit greyscale 4, 8, 16 bit composite output: 16 bit 'paletted' (65536 unique colors with a 16-bit index) 24-bit RGB (8 bits per colorant) 48-bit RGB (16 bits per colorant) 32-bit CMYK (8 bits per colorant) 64-bit CMYK (16 bits per colorant) Anti-aliased 8-bit, 24-bit or 32-bit color
Screening	Proprietary 'Accurate Screening' solution FM Screening solution Supports arbitrary threshold arrays Agfa Balanced Screening (ABS)**** Agfa CristalRaster Screening****
Color Output Support	Composite or separated PostScript DeviceN color support
Color Management	Supports PostScript CRDs API to link to 3rd-party Color Management Systems
Typical Applications	Color proofers Large format color printers Film recorders and imagesetters File translation/vector import Laser printers, copiers
Code Size	Typically 4MB in ROM (includes 35 Type 1 fonts) ±2.5MB for PostScript resources

* Requires separate license agreement with Global Graphics

** Requires separate license agreement with Morisawa

*** Requires separate license agreement with Monotype Imaging

**** Requires separate license agreement with Agfa

The technology experts for open document and print solutions

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