

OpenKicks: The CICS® API on Linux

This is the first peek at the soon to be released CICS® emulation environment for Linux®, UNIX®, and Windows®.

Built to be friendly to mainframe programmers and UNIX® system administrators, OpenKicks takes a fresh look at emulating CICS® on UNIX®.

Four concepts set OpenKicks apart from other emulation environments:

- * Available source code to allow on-site customization/extension.
- * Built on a database for trusted data integrity.
- * Good support vendor support to avoid compiler and database 'lock-in.'
- * Backward compatible to allow painless porting back to the mainframe.

OpenKicks is a product of Replatform Technologies, LLC and not affiliated with IBM®.

IMPORTANT NOTE: This presentation has several demos which do not convert well to slides. If you are unable to attend the presentation, please contact me to arrange another time.

OpenKicks: The CICS API on Linux

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OpenKicks

OpenSource?

Designed to port back to mainframe

- Round trip conversion.
- Good for development.
- What fails on mainframe fails in OpenKicks.
- What succeeds on mainframe succeeds in OpenKicks.
- What is unpredictable behavior on mainframe, fails in OpenKicks.

COBOL Programmer Friendly.

- Debugging features:
 - Electric Fence (memory debugger).
 - MicroFocus Animator support.
 - core dumps.
 - Easy to read logs.

UNIX sysadmin Friendly

- Sits on top of a database.
- Every transaction runs as a fresh independent process.
- Every transaction runs as the user who owns the process.
- Region can be described as daemon processes and file structures.

Enterprise Friendly

- Choice of compiler.
- Choice of database.
- Structured to allow one region to run on multiple machines.
- TN3270 Protocol.
- Web interface for configuration.
- Structured for continuous uptime.

Database	a	ok3270d
	b	okstartd
	s	oktcpd
	t	okruntran
	r	okidcams
	a	okimport
	c	okexport
t		
i		
o		
n		

Demo of ok3270d

COBOL

	AIX	Linux	zLinux
Micro Focus	C	A	C
Open COBOL	C	A	C
IBM COBOL	T	n	n

A - Actively Developed

T - Tested

C - Committed and Confident

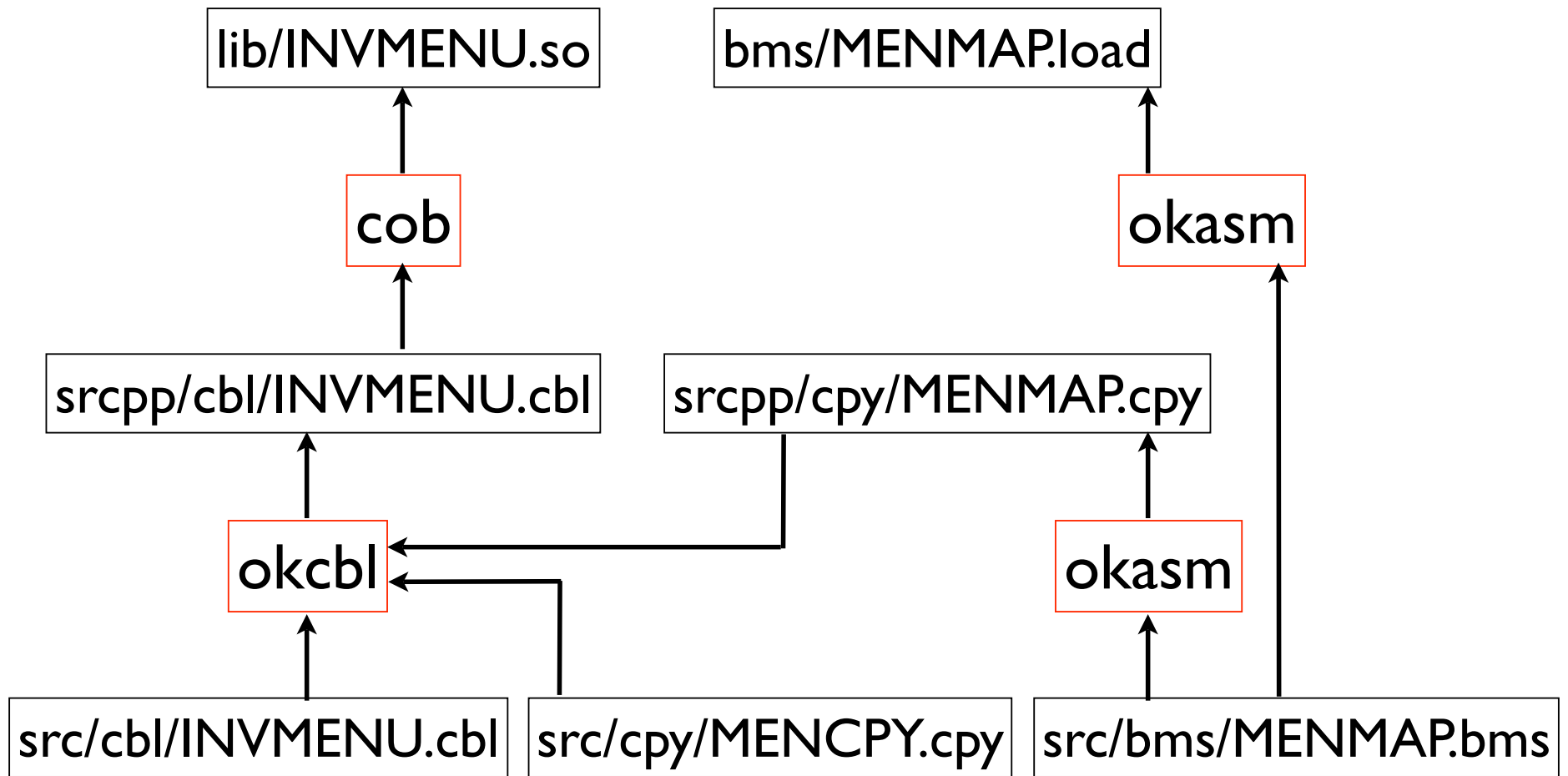
c - Committed, not Confident

W - Willing and Confident

w - Willing, not Confident

n - Not Supported

compile diagram



standardized zip file

src/cbl/INVMENU.cbl

src/cpy/MENCPY.cpy

src/bms/MENMAP.bms

src/rdo/INSTALL.rdo

src/data/CUSTOMER.s39

src/bat/NUMEDIT.cbl

Demo of mass compiling

Demo of changing a map

Demo of oktcpd

The system initialization table can not be change during run time, so this information is read only.
To change this information stop the region and edit /var/DFHSIT.txt.

This is the information for the region when the region was started:

Item	Value
User Name	pottmi
System ID	P001
Host	192.169.0.101
Region	/home/pottmi/trunk/online
3270 Port	3270
Http(s) Port	8080
Database Vendor	postgres
Database	okdb_pottmi
Database Host	192.169.0.101
COBOL Vendor	test
Character Set	iso88591
Security Model	su

VSAM emulated in Database

Primary	Alternate	Data
123456	CA	123456CARAUL
123455	OH	123455OHCHRIS
112233	CA	112233CAANNE

Demo of okidcams

Intended to be extended

- Primarily C
- POSIX C as extensively as possible
- Coding standard is enforced so there is no “Cowboy Code”.
- Instructions for anticipated maintenance.

Demo: Steps to extend OpenKicks

Improvements continue

- Implement hot-patch subsystem.
- Dramatically expand regression tests.
- Implement thread “unsafe” code finder.

Do you want to help?

- Send sample code to me.
- Ask me to port your application.
- Discuss your concerns with me.
- Give me access to hw and sw.

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Call or email during the conference.