eBOOK

Migrating assembler to the cloud

How OpenFrame makes mainframe modernization easier with OFASM

TmaxSoft

Mainframe migration has always posed a challenge. Until now.

It's been estimated that more than half of all core business processes still run on a mainframe system despite spiraling maintenance and licensing costs, an ever-increasing lack of technicians fluent in its coding languages, and its inability to take advantage of more modern, cloud-based technologies. Organizations that rely on their mainframe are put in a competitive disadvantage, and one that only threatens to grow bigger.

But OpenFrame is the affordable and reliable way to modernize your mainframe.

Migrating the heart of the mainframe

Assembler (or ASM) has been an intrinsic part of mainframe computers for decades, enabling faster data manipulation and improved system performance. But because assembler is tightly coupled with the underlying system hardware, translating it into a more modern system has been a significant challenge. For one thing, customers are often forced to redevelop their assembler programs into a more modern language such as C++ or Java, which can be very expensive and risky. But now there's a solution. OpenFrame lets you digitally transform your mainframe applications and language simply and easily, and with little risk.

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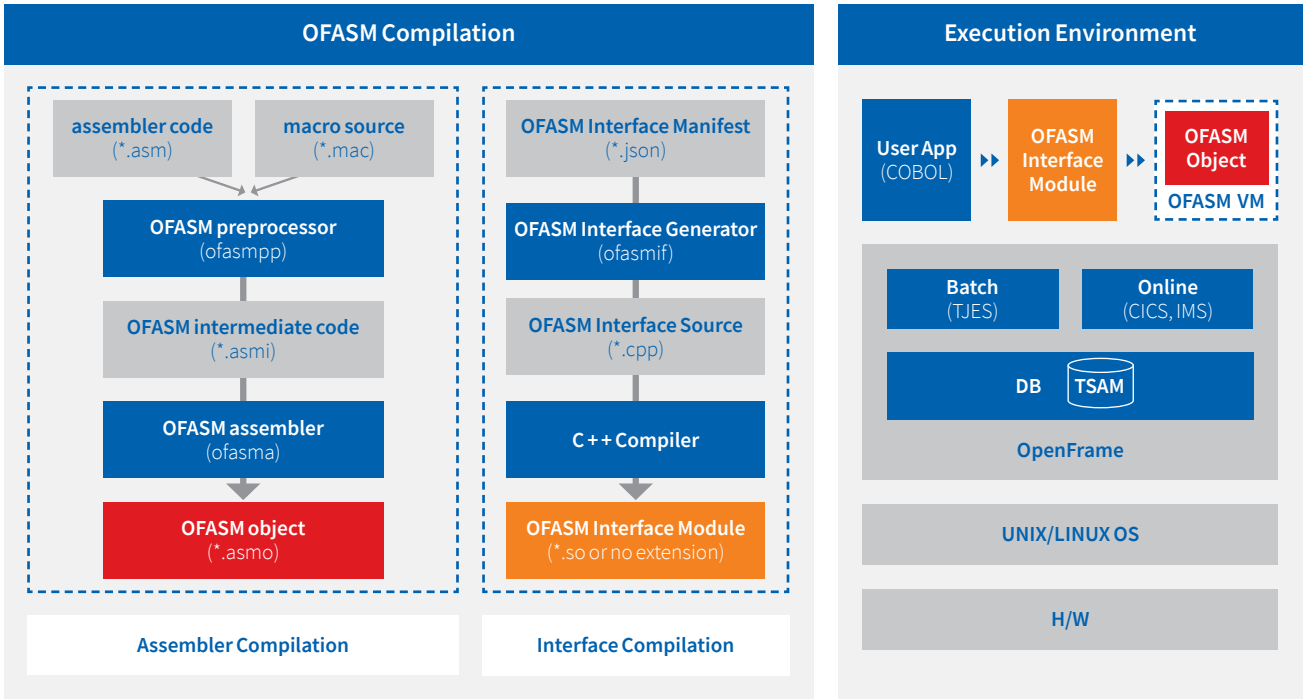
OpenFrame: Assembler migration done right

Replicating business logic that has been developed over many decades can be a monumental task. In fact, TmaxSoft is one of the only companies that can handle automated assembler migration, and can do so more reliably, safely and quickly than other options. OpenFrame protects the valuable application source code and business logic while migrating the applications to a modern cloud (public or private) environment.

The OpenFrame advantage

Other vendors rewrite the assembler applications rather than migrating them, a process that is expensive, time consuming and full of risk. OpenFrame provides both the assembler compiler and runtime environment that allows the mainframe assembler to recompile and run natively in the latest x86 operating systems.



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How OpenFrame works

With OpenFrame, the assembler conversion process is straightforward. First, its automated assessment tool analyzes the mainframe assembler code and identifies the migration path. Next, OpenFrame takes the mainframe assembler source codes and converts them into the OpenFrame Assembler (OFASM) Runtime Environment, where they are then translated into a Linux environment. Lastly, the interface between other programs and converted assembler programs are established by using the interface module, which acts as a bridge between the assembler program and the outside world.

Once the programs are migrated to OpenFrame OFASM, the assembler will take advantage of the latest x86 hardware and can even outperform its own performance in the mainframe environment.

of the most commonly used mainframe assembler instructions are supported in OFASM and these programs can be automatically converted without code modification.

The benefits of OpenFrame mainframe assembler migration

Reduced migration risk
without code modification

Minimal migration effort due to the OpenFrame automated conversion process

Runs assembler programs in Linux
without compromising performance

Seamlessly integrates ASM programs with other programs using a single interface

See how OpenFrame will modernize your mainframe
Discover how easy your mainframe modernization can be. Sign up for a complimentary rapid modernization assessment today at tmaxsoft.com/get-a-detailed-roi-and-legacy-mainframe-modernization-plan-with-our-rapid-assessment-process/

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