

IDA PRO – the state-of-the-art binary code analysis tool

IDA Pro is the flagship product of Hex-Rays, the software provider in reverse engineering. Being an interactive and programmable disassembler and debugger, IDA Pro provides excellent quality performance on different platforms and is compatible with many processors. IDA Pro has become the de-facto standard for the analysis of hostile code, vulnerability research and commercial off-the-shelf validation.

IDA Pro comes with different types of licenses: Named, Computer, Floating and Educational license to meet different business' scales and demands of usage.



A disassembler



A debugger



interactive



Programmable

Key features

Multi-processor Disassembler

- Disassembler modules for a large number of processors. The free SDK even allows you to run your custom disassembler;
- Full and extensible interactivity;
- Programmable: IDA can be extended in line with user's own requirement with IDC or IDAPython;
- Open plugin architecture: external plugins enable extension of IDA's capability;
- FLIRT technology (Fast library identification and recognition technology);
- Code graphing;
- Lumina server holds metadata with a large number of well-known functions;

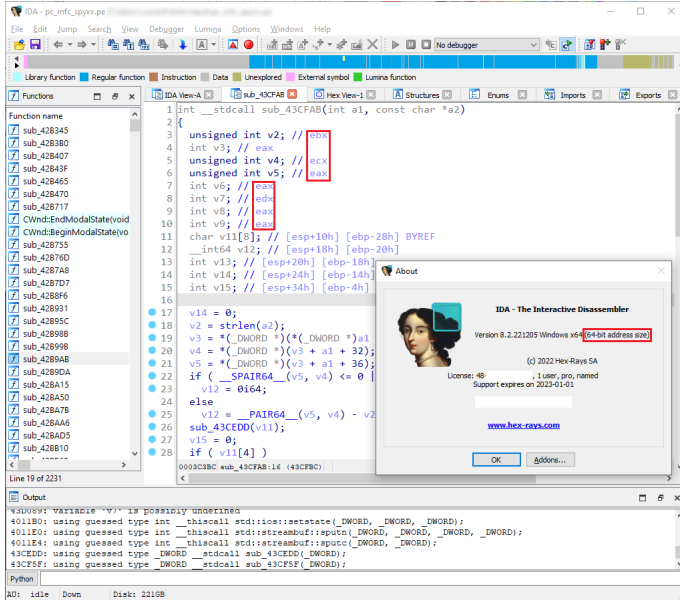
Multi-target Debugger

- The debugger adds the dynamic analysis of the information collected statically by the disassembler;
- Offers all the features expected from a debugger and more: "remote" function and tracking. Remote debugger: for Windows, Linux, Mac OS X, and other machines in any combination;

More features and upgrades are introduced along with new IDA version releases!

32-bit support in IDA64

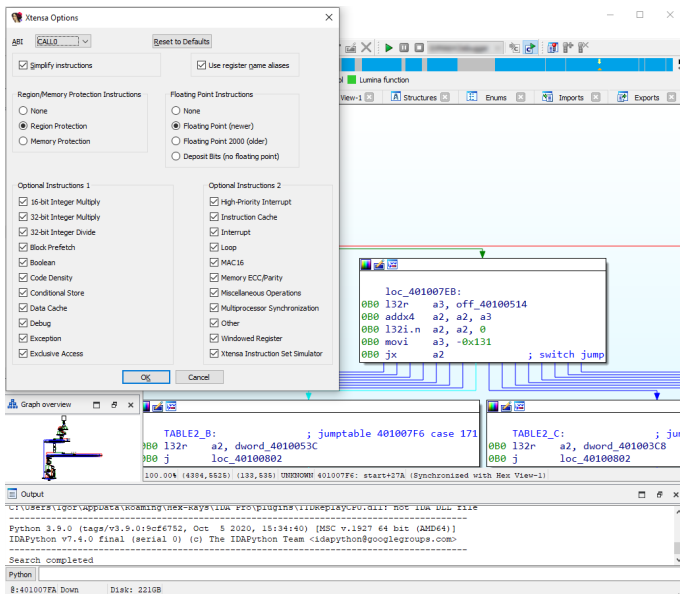
As another step towards sunsetting 32-bit IDA which we started with 8.1, 32-bit debugging and decompilation is now possible in IDA64. For decompilation, you need to have a corresponding 32-bit decompiler license. IDA Home and IDA Free now also support decompilation of 32-bit binaries using the cloud decompiler.



Processor module improvements

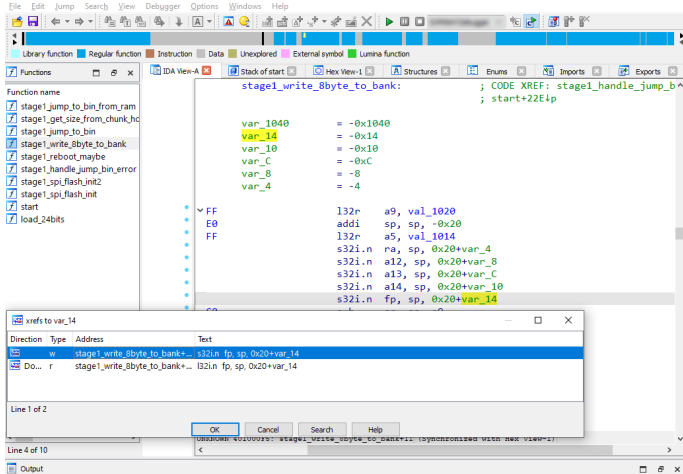
Xtensa module has been extensively reworked with the addition of various optional and macro instructions (number of supported instructions almost tripled) Most common switch patterns are recognized and marked up.

- Xtensa switch and options

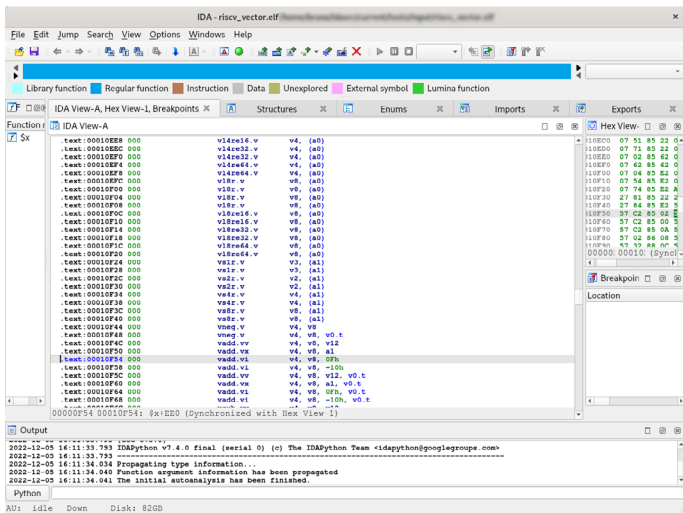




Stack variables are now tracked and created in functions.

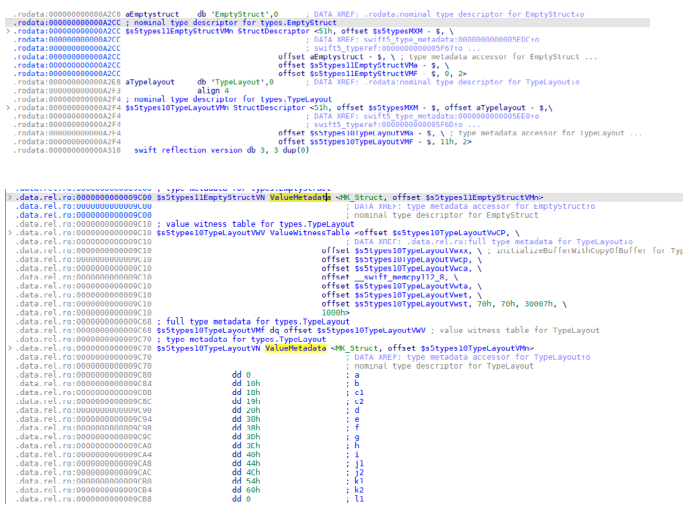


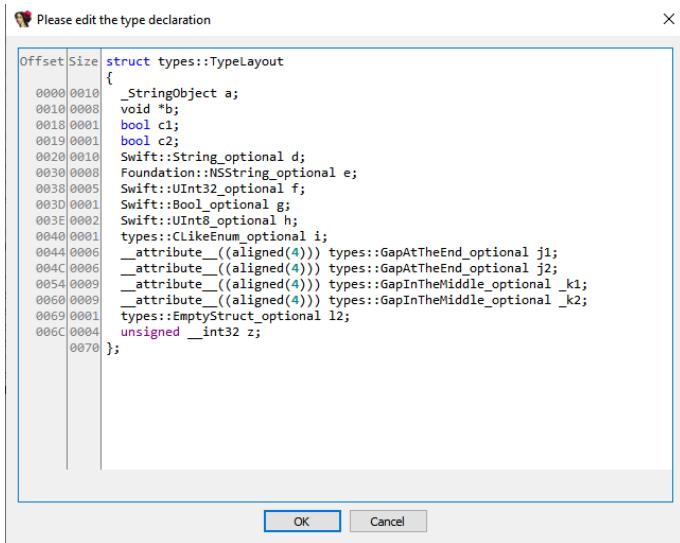
- RISC-V module can now disassemble vector extension instructions.



Swift

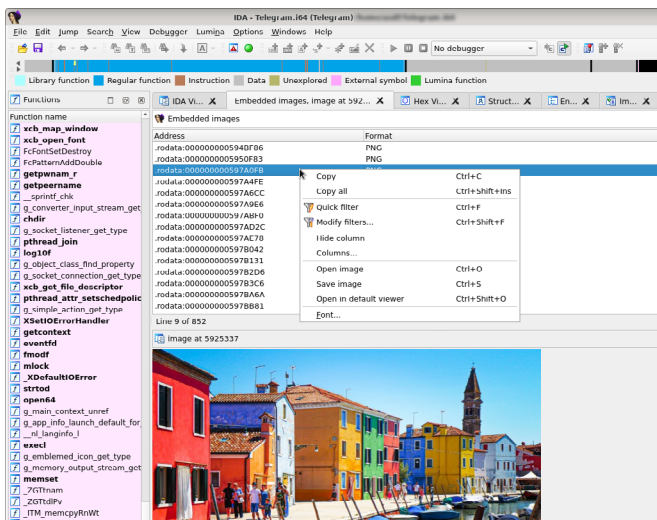
Metadata structures generated by the Swift compiler are parsed, formatted and labeled. Some of the simple types which can be represented in IDA are imported into Local Types.





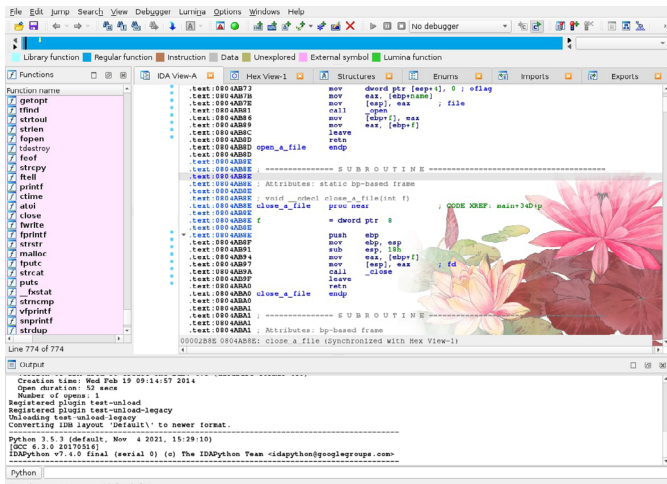
picture_search

A new plugin which can search for and display images(pictures) embedded in the current binary



UIcandy

CSS-based IDA themes now support background images in many of IDA's views



Full changelist: https://www.hex-rays.com/products/ida/news/8_2/

Previous releases

IDA Version 8.1 - Release date: 6th October 2022

Highlights: Private Lumina server, New icons, Golang regabi support, Sunsetting IDA for 32-bit binaries and much more!

Full changelist: https://www.hex-rays.com/products/ida/news/8_1/

IDA Version 8.0 – Service Pack 1 - Release date: 19th August 2022

Highlights: The Service Pack 1 of IDA 8.0 is primarily a bug fixes release that provides fixes for a few errors that might affect many users.

Full changelist: https://www.hex-rays.com/products/ida/news/8_0sp1/

IDA Version 8.0 - Release date: 29th July 2022

Highlights: introduced DA Teams, iOS 16 dyld shared cache support, Outlined functions Golang 1.18, New decompiler: ARC, Better firmware analysis thanks to the function finder plugin (patfind), FLAIR pattern generator (makepat) and much more!

Full changelist: https://www.hex-rays.com/products/ida/news/8_0/

IDA Version 7.7 – Service Pack 1 - Release date: 18th January 2022

Highlights: The Service Pack 1 of IDA 7.7 is primarily a bug fixes release that provides fixes for a few errors that might affect many users.

Full changelist: https://www.hex-rays.com/products/ida/news/7_7sp1/

IDA Version 7.7 – Release date: 24th December 2020

Highlights: IDA 7.6 introduced DA Teams, iOS 16 dyld shared cache support, Outlined functions Golang 1.18, New decompiler: ARC, Better firmware analysis thanks to the function finder plugin (patfind), FLAIR pattern generator (makepat) and much more!

Full changelist: https://www.hex-rays.com/products/ida/news/7_7/