Some projects require Space and Time...

IDA Pro 4.30 saves Time... gives Space!

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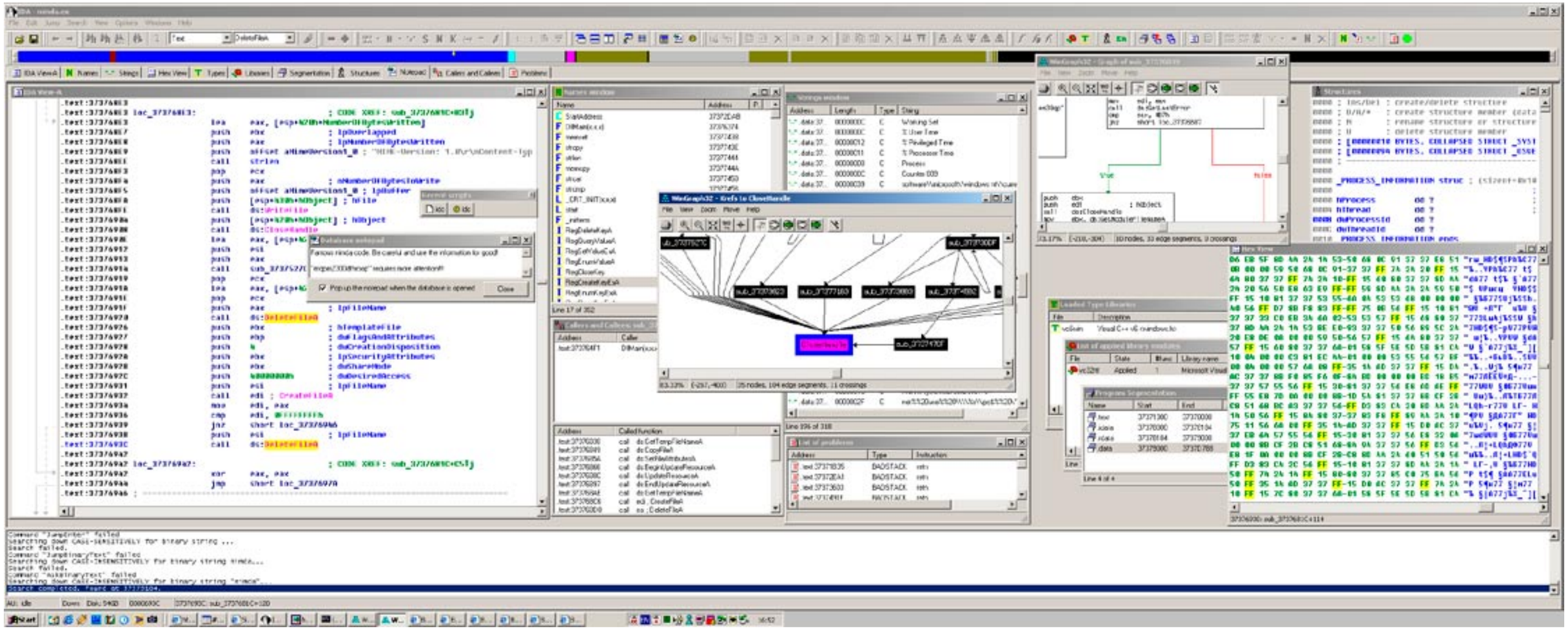

New features in version 4.18 (19/10/2001)

Processsors

Fujitsu F2MC-16L and F2MC-16LX (advanced version); PIC12xx; PIC14xx; PIC18xx processors in addition to the already supported 16xx family(standard version), Intel 960 module enhanced: FLIRT and types are supported I/O port names are added to i960.cfg; W65C02S support has been added to the 6502 module.

File Formats

The PDB plugin recognizes the Windows XP SymDia symbols, OpenBSD aout files are supported, COFF files for Intel 960 are supported, ELF AR libraries are supported.

Interface

a new window listing callers and callees is available, Wingraph 32 can now print, Zooming in and out on graphs can be controlled by the mouse, a small notepad has been added. The notes are saved and opened each time the database is reloaded, IDA Pro is now able to check for the availability of updates and warns when the free update period is about to expire, Patching has been removed from the default installation but can be activated by the DISPLAY_PATCH_SUBMENU option, 'Undefine' now warns before proceeding. this option can be turned off by the CONFIRM_UNDEFINE_COMMAND parameter in the IDAGUI.CFG or IDATUI.CFG files.

Kernel Improvements

Enhanced recognition of the function calling conventions, Floating point numbers in the instruction operands are supported, Slightly improved vc6.til file, automatically resize the saved registers area in the function frame there is a reference into the area from the function body. New linux system calls are recognized by IDA Pro.

New features in version 4.20 (19/12/2001)

Processsors

TMS 320C54xx, the Motorola 8/16-bit processor modules (except 6812) now support configuration files with the memory, interrupt vector, and I/O port definitions. See files named 68xx.cfg. Currently only 6805.cfg and 6811.cfg are available and other files will be made available later, the C166 module displays an information box explaining about the memory mapping feature present in the Options, General, Analysis, Processor specific options.

File Formats

Microsoft.Net Beta2 files are supported, stricter check for RT-11 SAV file format. The file extension should be "SAV". There were too many false recognitions, PE files: IDA Pro now recognizes TLS callback entries and properly comments them. ELF files with destroyed SHT are supported.

Interface

Arrows: The graphics version displays the execution flow in the form of small arrows to the left of the disassembly text, Highlight: IDA highlights the current identifier on the screen : see here and here. Alt-Up, Alt-Down arrows search for the highlighted identifier in the text. The highlight can be turned off in the Options, General, Misc dialog box, IDA starts to scroll the window without waiting the cursor to reach the window top/bottom. Also it is possible to scroll the window by using Ctrl-Up, Ctrl-Down arrows, Shift-Enter or Shift-DoubleClick selects the current identifier. Edit, Function, Rename register: Register renaming definitions start at the cursor position and last up to the next definition. The address range of the existing definition is automatically truncated at the cursor position.

Kernel Improvements

The function boundaries are automatically changed if an item overlapping it is created, the LoadSym.Idc has been improved to work with dbg2map and mapsym

New features in version 4.21 (19/12/2001)

Processors

Trimedia (upon special request only), TMS320C55 (advanced). All documented instructions are supported, the PIC processor module offers better analysis of bank switches, 8-bit Motorola : many new chip types are supported, memory configurations can be specified, C166 (advanced): many more chip types are supported, memory configurations can be specified, F2MC : many more chip variants are supported, memory configurations can be specified, Z180 configuration files have been added, IBM PC: memory references with the sib byte can be converted to offsets, ARM: pseudo-instructions can be turned off (ret)

File Formats

Intel OMF386 is added, EPOC6 import ordinals are supported

User Interface

New graphing commands: xrefs from/to code,data,externals, user-defined graph (various options), highlight current addresses in graph (blue by default); the Search Toolbar now allows to search incrementally for text, names, functions, addresses, etc., Hovering the mouse over a label displays a hint with the instructions/data at that label, The Rename command is available only if the cursor is either on a valid identifier or address or at the beginning of the list (to the left of the instruction mnemonics, Direct conversion to code/data without intermediate step of undefining the existing item. Use the options dialog box if you want to customize this behaviour, Improved highlighting of identifiers. The highlight color can be changed, the listbox and messages window contents can now be copied to the clipboard, Unhide all functions, Names: ask confirmation to delete a name from the list, in the structures window it is possible to jump to the desired structure using the "Jump by name" command. The hotkey is Ctrl-L. The same command is available in the enumerations window, Welcome box: delete removes previous projects from the list; hovering over the project now displays the full name of the file; it is possible to specify the number of bytes purged for the imported functions (through Edit->Function); a command line window can now be used to enter IDC commands: (IDAGUI.CFG, DISPLAY_COMMAND_LINE should be YES to activate this); immediate help on an IDC function; text version: a local clipboard is added to the dialog forms. (Ctrl-Ins - copy, Shift-Del - cut, Shift-Ins - paste, Ctrl-Del - delete).

Kernel Improvements

Better demangling of Borland C++ names, including the templates. Since there is no way to distinguish the new and the old naming schemes, now IDA tries both methods. This can sometimes lead to wrongly demangled names. Borland CBuilder v6 FLIRT signatures are added

New features in version 4.30 (05/08/2002)

User Interface

major improvements, too many changes to list, MDI, context sensitive toolbars, more standard looks.

Processors

ARM Architecture Version 5E (Enhanced DSP) instructions are supported, FLIRT signatures and type information files have been added; Motorola 6812: many new chip types are supported, memory configurations can be specified.

File Formats

Improved support of PSX object files; improved support of EPOC files, Borland extensions for DMPI to PE executables are supported; ELF machine type 6 is supported.

Kernel

The stack tracing algorithm is improved; Type libraries are regenerated: they are smaller; Improved FLAIR utilities (added ELF support for IBM PC)

How to update?

Each IDA Pro comes with one year of free support and updates.

If your key file is dated 06/2001 or later, you are entitled to a free download of version 4.30.

If your key file is dated 05/2001, 04/2001, or 03/2001, you may subscribe to our continued update plan called «support plan».

If your key file is older than 03/2001, you may purchase an upgrade at a significant discount.