

INCRA advertisement  
DDJ, March 1989, p.131

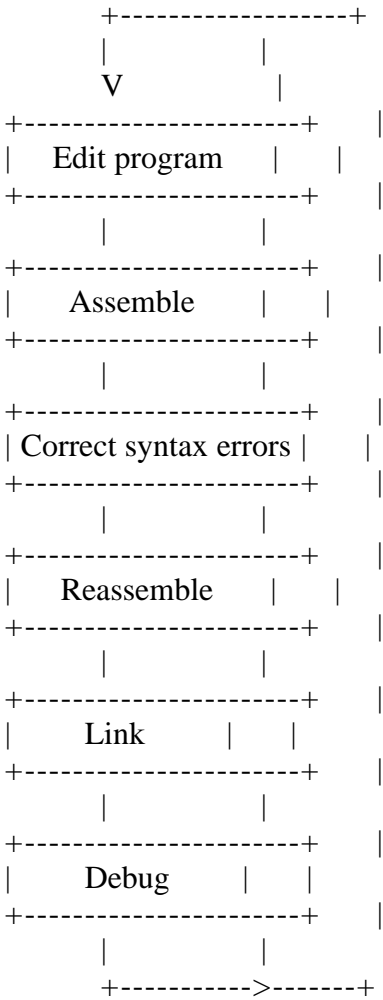
(Retyped by Emmanuel ROCHE.)

INCRA

The INCREMENTAL assembler development environment  
a REVOLUTION in Assembler Programming  
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A complete, integrated macro assembler development environment  
for the 8086 family of processors under DOS. Including a  
powerful window-oriented source debugger, syntax checking  
editor, fast linker, and the FIRST INCREMENTAL ASSEMBLER.

Other assembler development cycles look like this:



Cycle time: 2-20 minutes (or more)

The INCRA development cycle looks like this:

```
+-----+   +-----+  
| Edit | <--> | Debug |  
+-----+   +-----+
```

Cycle time: Less than 1 second!

With other systems, the development cycle for large programs can take several minutes, involving a lot of tedious hopping from one program to another. The INCRA Assembly development environment is completely integrated: everything you need to develop assembler programs or routines for programs in other languages is available at the touch of a key. With INCRA, you go from program entry and editing to debugging instantly because the INCRA assembler is INCREMENTAL. It updates the executable code as soon as you change the source -- in milliseconds. And the powerful INCRA debug window is always available at the push of a key to trace through the program. If you find a mistake, just flip to the editor and correct it, then flip to the debugger and continue testing.

The INCRA editor checks your assembler syntax as you enter, giving intelligent error messages that make it clear what was wrong and how to fix it -- you never have to worry about waiting 5 minutes for a program to assemble, only to find you have to do it all over because you forgot to put in a comma! INCRA also contains a fast, integrated linker that can quickly pull in procedures from other modules and libraries at the push of a button. The INCRA incremental assembler works just as well on linked programs as on single modules, so you can develop large, multi-module programs, and mixed language programs without constantly relinking. And with INCRA, macros expand as soon as you enter them, no need to wait for assembly to see if the macro expanded the way you thought it would! If there is a mistake, just edit the macro call, and the macro will immediately reflect the changes.

If you are a serious programmer working with assembler, INCRA's power and speed will make your life easier. If you are just learning assembler, INCRA's ease of use will make it exciting and fun! \$180.00 u.s.

Demo disk \$5.00 (deductible from purchase price)

If you do ANY assembler programming at all...  
INCRA is the tool to use.

Incremental Assembler  
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- Complete macro assembler

- Supports 8086/88, 80186, 80286, 8087, 80287
- Also operates in batch mode (faster than MASM 5.0)
- Compatible with MASM 5.0 (will assemble most MASM 5.0 programs without changes)

## Editor

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- Full screen, fully featured
- Syntax checking
- Automatic INCREMENTAL assembly
- Customizable options
- Unique line buffer for moving and re-ordering lines
- Super fast search and page
- Instantly generates EXE and OBJ files
- Template program files
- Lots more!

## Debugger

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- Window-oriented -- see all data, registers, flags, and executing source lines (with comments) at a glance
- Fully symbolic (no need to declare PUBLICs)
- Single step, multiple breakpoints, conditional breakpoints, check-trace
- Highlights changes to registers flags & data at each step
- Powerful symbolic data display options
- Save and restore data display definitions
- Disassemble with symbolic names
- Flip to and from your program's display screen
- 8087 window

## Linker

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- Faster than MASM 5.0
- Link INCRA files, regular OBJ files, and libraries

## Macros

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- Full macro capabilities
- Macros can be instantly expanded in the editor to inspect resulting source
- Full conditional assembly is supported

## Calculator

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- Available at all times
- Complete set of arithmetic and logical operations
- All program constant and offset values are available as operands
- Hex, decimal, octal, binary, ASCII results and operands accepted

## Options

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- Change environment features such as screen colors, cursor type, tabs, processor type, etc.
- Save options permanently

## Help

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- Pop-up command descriptions available at all times

To order: Call (U.S. or Canada) 1-800-263-5645

or send check or money order to:

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25 Warrender Avenue, Suite 909  
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(dealer inquiries welcome)

(416) 234-9347

System requirements: IBM PC or compatible with 256K

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