

FINALLY,  
A  
PROGRAMMING  
TOOL FOR  
PEOPLE  
WHO HATE  
MANUAL  
LABOR.

Nobody ever said programming PCs was supposed to be easy. But does it have to be tedious and time-consuming, too? Not any more. Not since the arrival of the remarkable new program you see below.

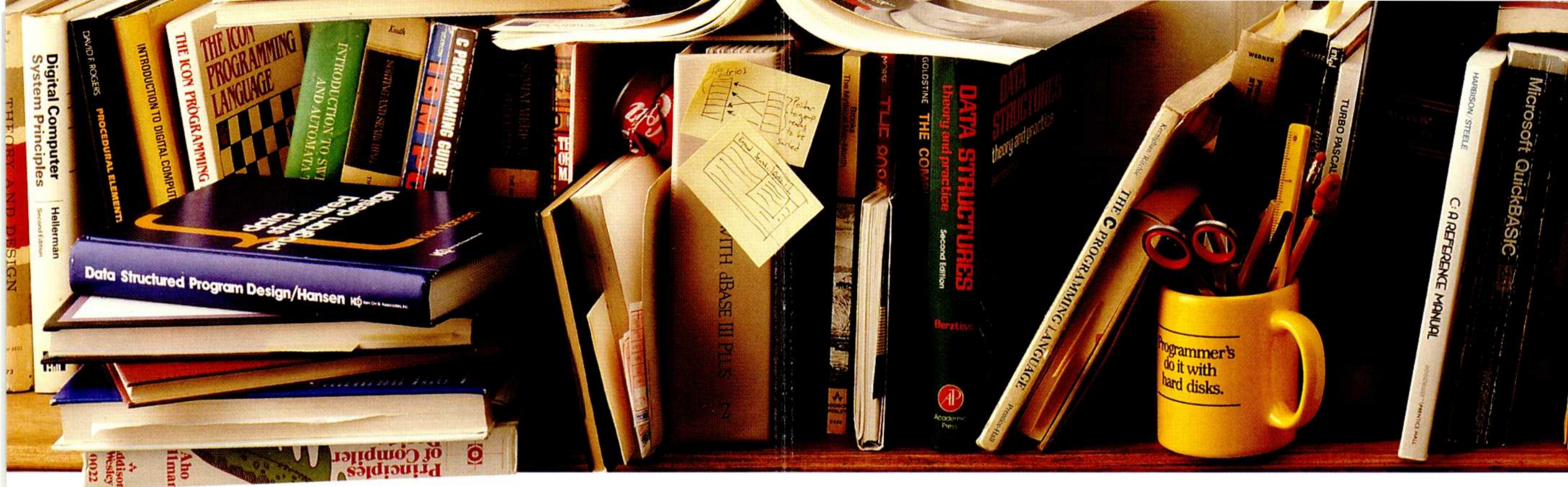
**THE NORTON GUIDES**  
*On Line Programmer's*

**ASSEMBLY**

- The ultimate productivity tool for programmers.
- Puts volumes of cross-referenced data at your fingertips.
- Replaces most manual searches with a few simple keystrokes.
- Includes compiler for creating your own databases.
- Also available in versions for BASIC, C and Pascal.



For the complete IBM® PC family and compatibles.



The Norton On-Line Programmer's Guides are an innovative concept that's based on a familiar idea.

Familiar, that is, to the hundreds of thousands of owners of the classic Norton Utilities.<sup>™</sup>

The Utilities, like the popular Norton Commander,<sup>™</sup> are based on the idea that *using* a PC should be as smooth, as fast and as effortless as possible.

While the Norton Guides are based on the idea that *programming* a PC should be as smooth, as fast and as effortless as possible.

Each of these five pop-up reference packages features a comprehensive **On-Line Database** that's crammed with just about everything you need to know to write applications.

Supported by the **Norton Guides Engine** (the instant access program) that waits in memory until you want it and then pops up your data where you need it—right on your screen.

Without even having to exit

what you're working on, you can instantly access everything from information about language syntax to a variety of tables, including ASCII characters, line-drawing characters, error messages, keyboard scan codes, memory usage maps, important data structures and more.

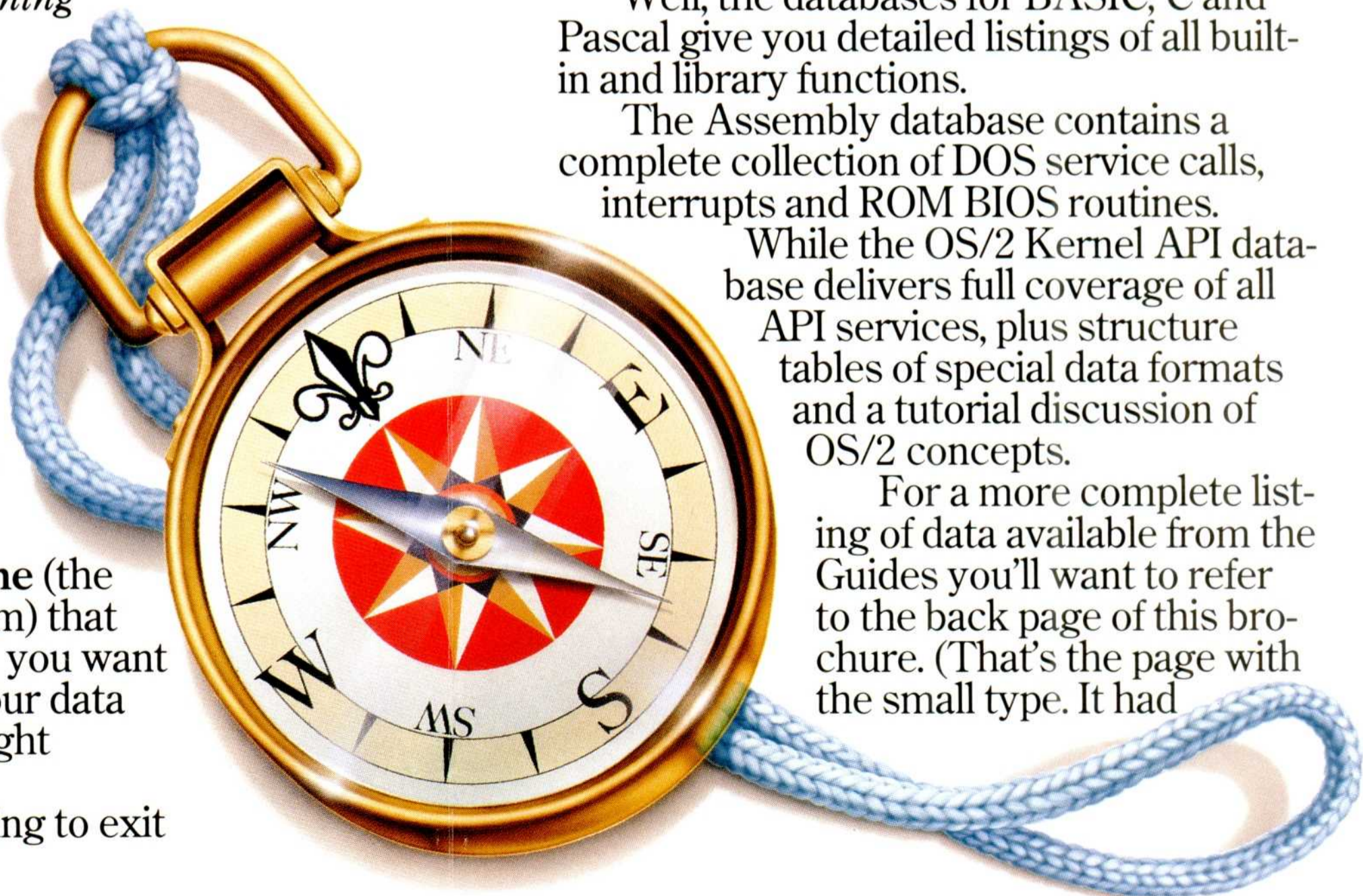
How much more?

Well, the databases for BASIC, C and Pascal give you detailed listings of all built-in and library functions.

The Assembly database contains a complete collection of DOS service calls, interrupts and ROM BIOS routines.

While the OS/2 Kernel API database delivers full coverage of all API services, plus structure tables of special data formats and a tutorial discussion of OS/2 concepts.

For a more complete listing of data available from the Guides you'll want to refer to the back page of this brochure. (That's the page with the small type. It had





OS/2 API  
PASCAL

to be. After all, the Guides have a lot to offer.)

Along with data, the Guides are loaded with **Built-In Expertise** in the form of insightful hints, tips and a wealth of wisdom from the Norton

team of top programmers.

And that's not all.

Each package also comes equipped with a **Built-In Reference Compiler**—the same compiler used to develop the Guides On-Line Databases. So you can create new databases of your own, complete with electronic indexing and cross-referencing.

You can also jump back and forth between a **Choice of Displays**. Full-screen mode lets you examine as much reference data as possible. While moveable half-screen mode lets you view *both* your data *and* your work at the same time.

Now, that's about as convenient as you can get.

And when you get around to adding another Guides On-Line Database—or two, or three—you won't have to spend a lot more money.

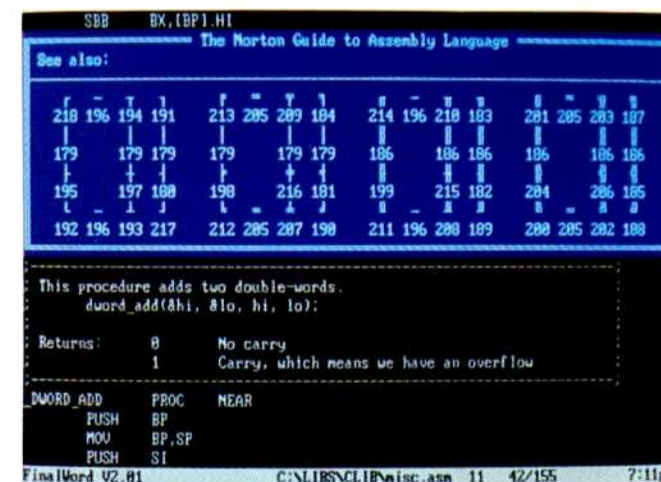
Because all five Databases are compatible with the instant access program in



A Guides reference summary screen (shown in blue) pops up on top of the program you're working on (shown in green).



Summary data expands on command into extensive detail. And you can select from a wide variety of information.



This table of line-drawing characters is one example of the many types of data contained in the Guides On-Line Databases.

**Cross-Referencing**, by the way, is an important—and convenient—feature of every Guides database. From within an entry, you can call up any related data simply by highlighting a “see also” field. And you can jump back and forth between related data screens at a keystroke.

your original package.

Which is about as sensible as you can get. So if you think you'd like to spend less time searching for data and more time programming, it's time you let the Norton Guides gather your data for you.

While your manuals gather dust.



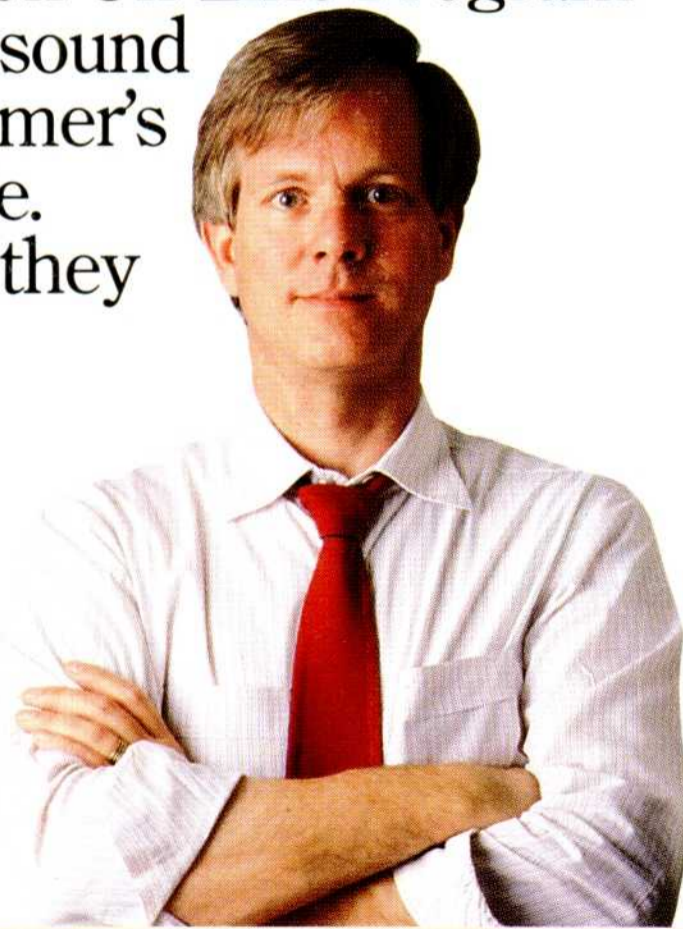
Which is designed to save you most of the time you're currently spending searching through the books and manuals on the shelf above.

It's one of a quintet of pop-up reference packages that actually *gather your data for you*—in OS/2 Kernel API or your favorite programming language.

And show it to you—instantly—right on your screen. Right next to your work.

If the Norton On-Line Programmer's Guides™ sound like a programmer's dream, they are.

Or at least they were.



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## The Guides On-Line Databases

### OS/2 API

■ **Kernel API:** Full coverage of all OS/2 API services: DOSx, KBDx, MOUx and VIOx. Organized by name, fully cross-referenced by functional groups and related to use.

■ **Functions:** Full discussion of each, with programming tips and detailed notes on all parameters.

■ **Calling Sequences:** Samples in both C and Assembly, with programming examples in C.

■ **Structure Tables:** Includes all special data formats used in OS/2 programming.

■ **Tutorial:** OS/2 concepts.

■ **Conversion Guide:** DOS-to-OS/2, how to use pipes, queues, semaphores, etc.

■ **Basic Reference Data:** ASCII codes, error and return codes, special keystroke codes, ANSI escape sequences and IOCTL functions.

### ASSEMBLY

■ **Instruction Set:** Includes flags affected, addressing modes and bytes per instruction.

■ **Assembler Directives:** Delivers detailed descriptions of all pseudo-ops and directives for both Microsoft® and IBM® Macro Assemblers.

■ **DOS Service Calls:** Describes all service calls and interrupts up to DOS 3.2.

■ **ROM BIOS Calls:** Describes all calls in detail.

■ **Tables:** Addressing modes ■ Description of the PSP ■ Low RAM usage ■ Effective Address calculations ■ ASCII chart ■ Keyboard scan codes ■ Line-drawing characters ■ Standard file handles

■ And much more.

### BASIC

■ **Popular Dialects:** Since the most popular dialects of BASIC are *BASICA*, *QuickBASIC*® and *Turbo BASIC*®, this Guides Database gives

you the information you need to program in all three.

■ **Statements and Functions:** Contains detailed listings of all statements as well as all built-in and library functions.

■ **Tables:** Line-drawing characters ■ ASCII chart ■ Extended keyboard codes ■ Run-time error numbers ■ Command-line switches ■ Operators, precedence order ■ And more.

### C

■ **Language Description:** Describes the full C language (both Microsoft® C and Turbo C®), including programming statements, operators, data types and structures.

■ **Library Functions:** Contains full descriptions of all built-in and library functions, from abort () to write ().

■ **Preprocessor Directives:** Describes all C preprocessor commands, usage and syntax.

■ **Tables:** ASCII chart ■ Line-drawing characters ■ Keyboard scan codes ■ Error codes ■ Character constants ■ Header files ■ Coercion rules ■ Operator precedence ■ And more.

### PASCAL

■ **Turbo Pascal:** Instead of generic Pascal, your On-Line Database provides a thorough description of Turbo Pascal®, including program statements, syntax, operators, data types and structures.

■ **Library Procedures and Functions:** Contains complete descriptions of all built-in and library functions available in Turbo Pascal.®

■ **Tables:** ASCII chart ■ Line-drawing characters ■ Keyboard scan codes ■ Error codes ■ Compiler directives ■ Reserved words ■ Internal data formats ■ And more.

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COMPUTING

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