Concurrent Programming

Alan Burns
Geoff Davies

Concurrent programming plays a vital role in systems where many events appear to occur simultaneously, such as operating systems, databases and real-time systems. This book provides a hands-on introduction to concurrent programming principles and techniques. By using Pascal-FC, a Functionally Concurrent extension of Pascal, the authors illustrate a variety of language models and concurrency primitives without requiring readers to learn many different languages.

Highlights of the book include:

- A wealth of practical examples in Pascal-FC, which supports a variety of concurrency models
- A comparison of concurrent features in languages like Ada, occam 2 and CSP
- A survey of current and future directions including Ada 95, LINDA, and object-oriented languages

Concurrent Programming will be equally valuable to programmers wishing to extend the range of their skills and to students of computer science taking courses in concurrrency, operating systems, and real-time systems.

Alan Burns is a Professor in Computer Science at the University of York, and has written two other Addison-Wesley books, *Programming in occam 2* and *Real-Time Systems and Programming Languages*. Geoff Davies is a lecturer in Computer Science at Bradford University and his main interests lie in concurrent systems and real-time languages.
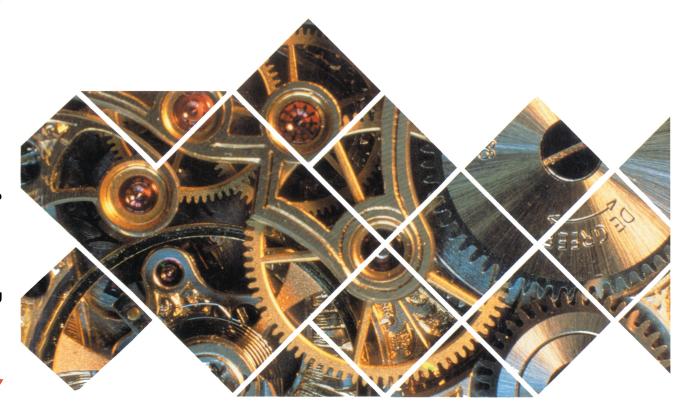
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