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Building Secure and Reliable Network Applications

reviewed by Jon B. Weissman, University of Texas at San Antonio

Building Secure and Reliable Network Applications
by Kenneth P. Birman
591 pages
\$58
Manning Publications
Greenwich, CT
1996
ISBN 1-884777-29-5

This book attempts to fill a needed gap between the theory and practice of reliable distributed systems. Reliability is a complex problem that includes fault tolerance, security, consistency, availability, and performance. Kenneth Birman has developed two well-known distributed-systems technologies for reliability (ISIS and Horus) and numerous real-world applications, and he brings this wealth of experience into the book. A unique feature of this book is that it presents and evaluates issues and solutions in the context of real applications. Most texts on distributed computing focus on theory or systems, but often do not connect the concepts to applications. Thus, this book is targeted primarily at network-application designers to promote the use of reliability technologies in their applications. Birman uses critical applications, such as air-traffic control and medical-instrument control, to illustrate the importance and difficulty of this problem. As a teaching text, however, the book is a little uneven, with chapter length and complexity differing by orders of magnitude (Birman warns us about this, but this might be difficult for some students).

The book has three main sections: basic distributed-computing technologies, Internet technologies (the Web), and reliability. The distributed-computing technologies section covers the spectrum of low-level communication protocols, including IP and IP-multicast, UDP, TCP, RTP, ATM, and recent optimizations, including LRPC, U-net, and X-kernel, up through higher-level client-server and RPC protocols. The overview is very broad, touching on the key features of these technologies. However, some readers might desire a more in-depth discussion of TCP-streams in particular, because the vast majority of Internet technologies (including the Web) depend on it. The author nicely illustrates that "reliable" streams might in fact be

unreliable when connections are broken between clients and primary and backup servers. This simple example sets the context for much of the reliability discussion in subsequent chapters. This section also contains a detailed chapter on object-oriented technologies such as Corba, although it is difficult to tell what is "standard Corba" from the discussion. Nonetheless, object-oriented solutions promise to promote reliability by reducing application complexity.

The next section describes the Web, Java, agents, and other Internet technologies. Birman uses the Web to illustrate reliability problems that are central to most complex distributed systems: systems composed of interdependent components can fail (or appear to fail) in many ways. He points out that the Web also reveals the kind of trade-offs that might be necessary: proxies can promote high availability and improved performance, but at the potential cost of consistency.

The final section discusses reliability solutions in depth. While replication is the principle means of achieving reliability (along the dimensions of availability, fault tolerance, consistency, and performance), the author presents a rich array of protocols that offer different degrees of reliability. The author begins by distinguishing between static-process groups and dynamic-process groups, in which processes can join and leave dynamically. We learn, perhaps surprisingly, that protocols for static groups (for example, multiphase commit protocols) tend to be more expensive but offer greater consistency. However, protocols for dynamic groups tend to be able to make progress when a majority of processes remain alive. In dynamic groups, the ability to establish consistent group-membership views for all group processes is crucial. Different degrees of consistency are obtained by employing different multicast ordering protocols.

Building Secure Reliable Network Apps

KJ Lindholm-Leary



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