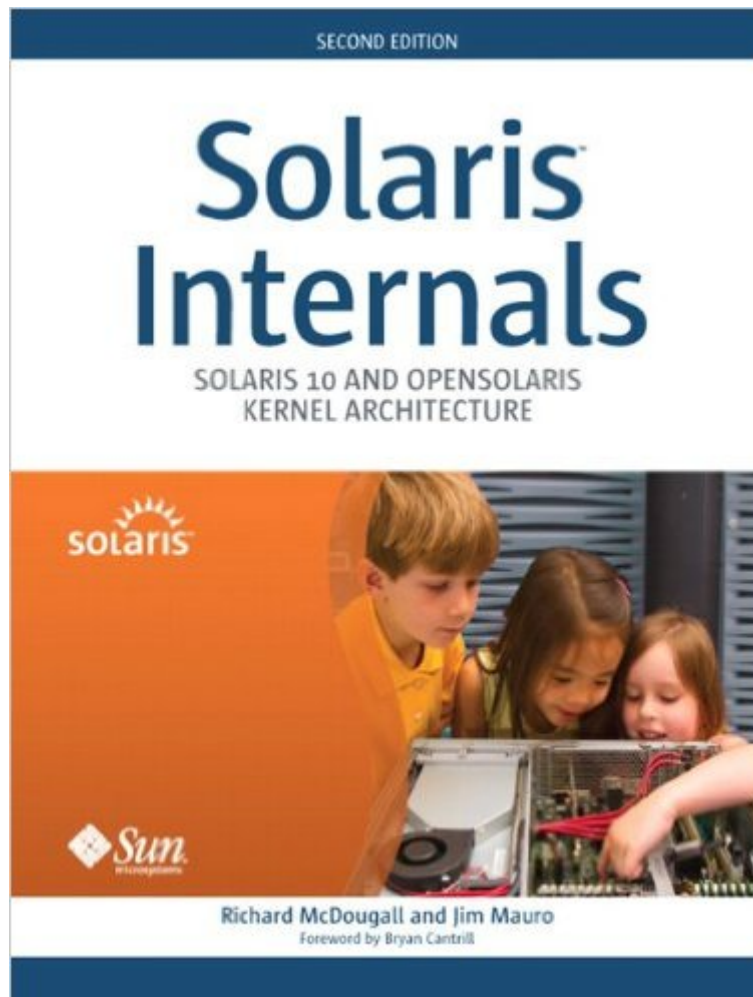


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# Solaris Internals: Solaris 10 And OpenSolaris Kernel Architecture (2nd Edition)



## Synopsis

"The Solaris<sup>®</sup> Internals volumes are simply the best and most comprehensive treatment of the Solaris (and OpenSolaris) Operating Environment. Any person using Solaris--in any capacity--would be remiss not to include these two new volumes in their personal library. With advanced observability tools in Solaris (like DTrace), you will more often find yourself in what was previously uncharted territory. Solaris<sup>®</sup> Internals, Second Edition, provides us a fantastic means to be able to quickly understand these systems and further explore the Solaris architecture--especially when coupled with OpenSolaris source availability." --Jarod Jenson, chief systems architect, Aegis

"The Solaris<sup>®</sup> Internals volumes by Jim Mauro and Richard McDougall must be on your bookshelf if you are interested in in-depth knowledge of Solaris operating system internals and architecture. As a senior Unix engineer for many years, I found the first edition of Solaris<sup>®</sup> Internals the only fully comprehensive source for kernel developers, systems programmers, and systems administrators. The new second edition, with the companion performance and debugging book, is an indispensable reference set, containing many useful and practical explanations of Solaris and its underlying subsystems, including tools and methods for observing and analyzing any system running Solaris 10 or OpenSolaris." --Marc Strahl, senior UNIX engineer

Solaris<sup>®</sup> Internals, Second Edition, describes the algorithms and data structures of all the major subsystems in the Solaris 10 and OpenSolaris kernels. The text has been extensively revised since the first edition, with more than 600 pages of new material. Integrated Solaris tools and utilities, including DTrace, MDB, kstat, and the process tools, are used throughout to illustrate how the reader can observe the Solaris kernel in action. The companion volume, Solaris<sup>®</sup> Performance and Tools, extends the examples contained here, and expands the scope to performance and behavior analysis. Coverage includes: Virtual and physical memory Processes, threads, and scheduling File system framework and UFS implementation Networking: TCP/IP implementation Resource management facilities and zones

The Solaris<sup>®</sup> Internals volumes make a superb reference for anyone using Solaris 10 and OpenSolaris.

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## Customer Reviews

This book is actually just one of a two volume set - "Solaris Internals" for developers, and "Solaris Performance and Tools" for system administrators. I will speak of the second edition of "Solaris Internals", since I am not a system administrator by trade. "Solaris Internals" is the badly needed update for the only book that I know of that contains information on how Solaris implements functions behind the application programming interfaces. This information will be most helpful to application developers, device driver and kernel module developers, and advanced system administrators that are responsible for performance tuning and capacity planning. The book reads like a combination computer architecture and operating systems manual, and though it can be a bit dry at times, it was meant to be a reference book that professionals can go to for the details. In that sense, the first edition never failed me. In fact, if you are not familiar with the concepts of computer architecture and operating systems theory in general, this book will probably be over your head. From perusing the second edition, the format seems to be very much the same in the second edition, just with expanded material reflecting the additional features of Solaris 10. Also, if you are into Solaris systems programming as I am, another essential volume is "Solaris Systems Programming". That book is also very dry reading, but it has what you need to know in order to write code with system calls to the Solaris operating system.

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