

# Practical use of Defect Detection and Prediction in the Development and Maintenance of Software

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## Abstract

Large complex software products inevitably contain software defects. Some of these are identified before the product ships. In the likely case where the number of defects exceeds the engineering resource required to fix them, it is important to identify the most important ones to fix.

This talk will look at one Software Project (The OS/Net portion of Solaris) and describe the methods employed in the development of Solaris and how we identify, and prioritize defects. It will also look at other data driven methods that have been attempted and describe the problems in implementing them.

**Categories & Subject Descriptors:** D.2.7 Distribution, Maintenance, and Enhancement, Corrections\*\*; Enhancement\*\*; Restructuring, reverse engineering, and reengineering  
D.2.4 Software/Program Verification, Reliability

**General Terms:** Reliability

## Bio

The speaker is a Principal Engineer at Sun Microsystems, working primarily within the Solaris Kernel for the last 14 years. Specialising in the maintenance of the Solaris Product the speaker has experienced many different ways of identify and prioritising defect resolution.