

**SOFTWARE PRODUCT DESCRIPTION**

PRODUCT NAME: VAX/VMS Operating System, Version 4.2

**DESCRIPTION**

**System Overview**

The VAX/VMS Operating System supports all VAX series computers, working reliably and efficiently in both time-sharing and production environments. Time-sharing users can work interactively with the system and can submit batch jobs. Jobs of all types, including processor intensive, I/O intensive, large memory, and real-time, in any mix, perform well on VAX/VMS. The system permits an absolute limit of 8192 concurrent process. However, the actual amount of work supported at one time with good performance depends on the types of processing performed as well as on the physical memory and secondary storage available. The practical limit, with moderate per-user workloads, is in excess of 100 concurrent users for a large scale system.

**System Configuration**

The user receives with VAX/VMS a standard system configuration file and a site-independent start-up procedure. The user can modify the site-independent start-up procedure or create a site-specific start-up procedure. To start the system, the user performs a bootstrap operation. Optionally, the parameter values of the selected file can be modified at bootstrap time. The system configures itself by executing the start-up procedures. After system start-up, the user can reset system parameter values on-line for the next bootstrap operation and can dynamically change a subset of the parameter values, i.e., change the configuration of the running system.

To aid the user in setting up system parameters, a procedure is provided that analyzes the system configuration and generates a file containing parameter settings. This file can be modified by the user and a system parameter file generated. In addition, the system incorporates self-tuning mechanisms. For example, the system monitors job performance and increases the amount of physical memory for jobs that need it and decreases the amount