UL 2640

Test Method for Server Performance

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Test Method for Server Performance, UL 2640

First Edition, Dated July 8, 2011

Summary of Topics

This is the First Edition of the Test Method for Server Performance

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INTRODUCTION

1 Scope

1.1 These performance ratings apply to desktop servers, rack-mountable servers, individual blade servers, chassis containing multiple blade servers, and supercomputers intended to be supplied by a branch circuit of 600 volts ac or less.

1.2 The servers covered by this Test Method shall be provided with at least one CPU and at least one hard disk drive or solid state drive, support an operating system, and be capable of being booted from a memory stick.

1.3 These requirements are intended to be a hardware performance efficiency metric and not an application performance metric.

1.4 These requirements do not cover servers that are provided with a means for direct connection to a DC power supply.

1.5 For this Test Method, server performance is evaluated using standardized server performance software.

2 Units of Measurement

2.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

3 Undated References

3.1 Any undated reference to a code or standard appearing in the requirements of this Test Method shall be interpreted as referring to the latest edition of that code or standard.

4 Glossary

4.1 For the purpose of this Test Method, the following definitions apply.

4.2 SERVER – A computer that provides services and manages networked resources for client devices.

4.3 CHASSIS – Enclosure that contains multiple servers or individual blades.

4.4 SUPERCOMPUTERS – Chassis or multiple chassis containing several servers which are connected to act as one. May be powered from one common dc supply or powered from individual ac supplies.

4.5 IDLE MODE – An operational state in which the operating system and other software have completed loading and the server is capable of completing workload transactions, but no active workload transactions are requested or pending by the system.

4.6 OFF MODE – The lowest power consumption mode which cannot be switched off (influenced) by the user and that may persist for an indefinite time when a server is connected to the main electricity supply.

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