

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : James J. Fallon  
Application No. : Not Yet Assigned  
Confirmation No. : Not Yet Assigned  
Filed : Herewith  
For : SYSTEMS AND METHODS FOR ACCELERATED  
LOADING OF OPERATING SYSTEMS AND  
APPLICATION PROGRAMS  
Group Art Unit : Not Yet Assigned  
Examiner : Not Yet Assigned  
Hon. Commissioner for Patents New York, NY 10020  
P.O. Box 1450 October 19, 2006  
Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT

Sir:

Prior to the examination of this application,  
applicants amend the application as follows:

**Amendments to the Specification** are reflected in the  
listing of claims which begins on page 2 of this paper.

**Amendments to the Claims** are reflected in the listing  
of claims which begins on page 3 of this paper.

**Remarks/Arguments** begin on page 6 of this paper.

Amendments to the Specification

Please replace the paragraph after the title of the specification and starting on line 4, page 1 of the specification with the following paragraph showing amendments:

--CROSS REFERENCE TO RELATED APPLICATION APPLICATIONS

This application is a continuation of United States patent application No. 09/776,267, filed on February 2, 2001, which is based on a United States provisional application Serial No. 60/180,114, filed on February 3, 2000, both of which ~~is~~ are hereby fully incorporated herein by reference.--

## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

### Listing of the Claims

1-16. (cancelled)

17. (new) A method for providing accelerated loading of an operating system comprising:

maintaining a boot data list, wherein at least a portion of boot data is associated to said boot data list;

preloading said at least a portion of boot data into a memory upon initialization of said computer system;

accessing said at least a portion of boot data in a compressed form from said memory;

decompressing said at least a portion of boot data in compressed form accessed from said memory at a rate that increases the effective access rate of said memory; and

utilizing said decompressed at least a portion of boot data in loading said operating system for said computer system.

18. (new) The method of claim 17, wherein said at least a portion of boot data comprises program code associated with an application program.

19. (new) The method of claim 17, wherein said preloading comprises retrieving said at least a portion of boot data from a memory device and storing said retrieved at least a portion of boot data into said memory.

20. (new) The method of claim 17, wherein said preloading is controlled by a data storage controller.

21. (new) The method of claim 17, further comprising updating said boot data list.

22. (new) The method of claim 17, further comprising updating said boot data list by associating additional boot data to said boot data list.

23. (new) The method of claim 17, further comprising updating said boot data list by removing the association of additional boot data from said boot data list.

24. (new) The method of claim 17, further comprising receiving a request for additional boot data not previously associated with said boot data list.

25. (new) The method of claim 17, further comprising:  
receiving a request for additional boot data not  
previously associated with said boot data list; and  
adding to the list any boot data requested by the  
computer system not previously stored in the list.

26. (new) The method of claim 17, further comprising  
removing the association of additional boot data from said boot  
data list not requested by said computer system.

27. (new) The method of claim 17, further comprising  
compressing said at least a portion of boot data to provide said  
at least a portion of boot data in compressed form.

28. (new) The method of claim 17, further comprising  
compressing said at least a portion of boot data to provide said  
at least a portion of boot data in compressed form, wherein said  
compressing is performed by a data compression engine.

29. (new) The method of claim 17, further comprising  
compressing said at least a portion of boot data to provide said  
at least a portion of boot data in compressed form, wherein said  
compressing is performed by a data compression engine and said  
data compression engine performs said decompressing.

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