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**Arthursson**

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(54) **APPLICATION AND FILE SYSTEM HOSTING FRAMEWORK**

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(52) **U.S. Cl.** ..... **707/783; 715/760**

(58) **Field of Classification Search** ..... None  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,392,400 A 2/1995 Berkowitz  
(Continued)

**FOREIGN PATENT DOCUMENTS**

JP 2004192053 A 7/2004  
(Continued)

**OTHER PUBLICATIONS**

Darryl Taft, "Forecast: Xcerion Clouds the OS Horizon, Fuzzes Google, Microsoft Out of Picture", Mar. 2007, eWEEK.com, pp. 1-2.\*

(Continued)

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(57) **ABSTRACT**

Generally described, the present invention is directed to a network operating system that provides more effective ways of leveraging the connectivity of computer networks. In one embodiment, an XML virtual machine is implemented that accepts high-level application code written in an XML programming language as input. Functionality is provided to interpret or translate the application code written in an XML programming language into code that is suitable for execution across computer platforms. Moreover, the XML virtual machine supports the Model View Controller (MVC) design paradigm that facilitates true data abstraction from applications to a common data model. Multi-instance applications, with each instance potentially supporting multiple views, may be created and executed.

**8 Claims, 62 Drawing Sheets**

