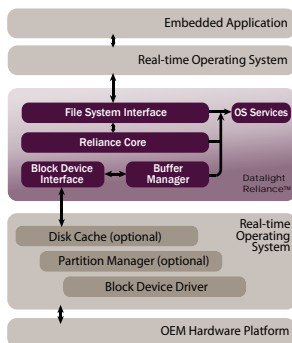


# Reliance Nitro 1.1

## High-Performance Transactional File System

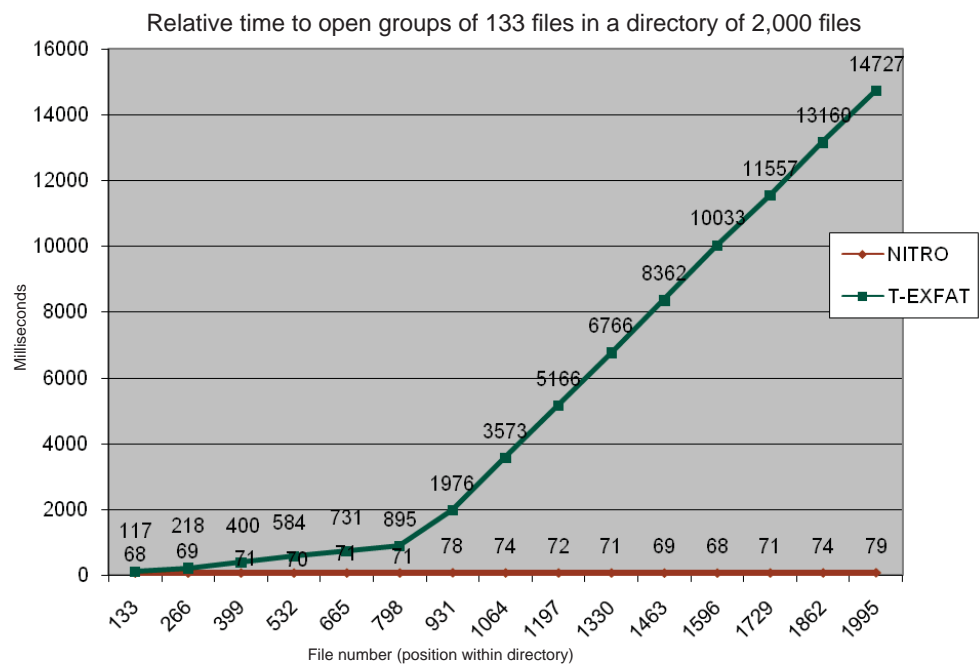
- Tree-based architecture provides maximum performance
- Extent-based file system
- Dynamic Transaction Point™ technology provides control of performance
- Atomic transaction model protects user data and meta data from corruption
- Boots more quickly and consistently than FAT or journaling file systems
- Replaces or coexists with other file systems
- Performance enhancing discard interface for NAND and NOR; Also supports HDD, RAM, Disk-on-chip, USB Mass Storage and SD/MMC
- Works with virtually any 32-bit operating system; Pre-ported versions available for:
  - Microsoft Windows CE
  - Microsoft Windows Mobile
  - Wind River VxWorks



### Architected for Performance. Reliable against Corruption.

Datalight Reliance Nitro™ was created for environments where speed is a critical requirement, offering the highest level of performance available in an embedded file system. It is based on the pioneering transactional file system Reliance™, specifically designed for use with embedded devices that operate in environments where power loss may occur. Reliance Nitro works with a broad array of storage media – including flash memory, RAM, hard disk, USB mass storage, and SD/MMC – and virtually any 32-bit operating system.

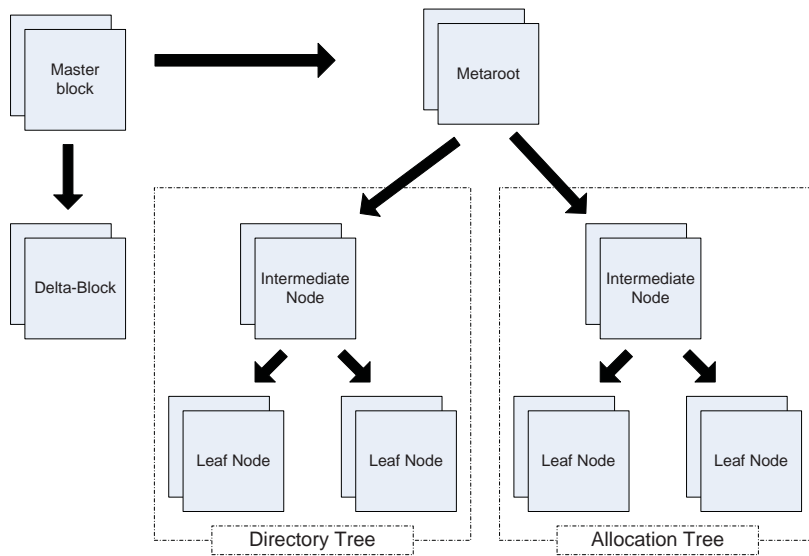
### Blazing Fast Performance



Because of Reliance Nitro's tree-based allocation and directory design, the file open operations for each sample are orders of magnitude faster than the standard default file system included with the operating system. Where there are less than 50 files in the directory, Reliance Nitro is about 50% faster. And in cases where there are hundreds or thousands of files, Reliance Nitro can literally be hundreds of times faster. Since 'file open' is one of the operations most commonly run by a file system, the real-world performance impact can be very significant at the user/device level.

Target Configuration	32-bit OS, any CPU, virtually any storage media, 70 KB RAM (typical)
Development System	Windows 32 host; 4 MB of disk space for Reliance; sufficient RAM for development tools
Supported Media	Flash memory, RAM, HDD, Disk-On-Chip, USB Mass Storage, SD/MMC, and eMMC
RAM Memory Required	100 KB to 150 KB (nominal)
Media Volume Size	Each partition (or disk) can be scaled from 100 KB to 32 TB (terabytes)
Max File Size/Name Length	Available free space/1,024 UTF-8 bytes (or OS imposed limits)

### TREE-BASED ARCHITECTURE



**Dynamic Transaction Point™ APIs Supported**

In addition to APIs common to most file systems, Reliance supports these Dynamic Transaction Point APIs:

```
GetAutomaticTransactionMode()
SetAutomaticTransactionMode()
ManualTransactionPoint()
```

**Industry Standard Compatibility**

Stat()	Read()
Link()	Write()
Unlink()	Close()
OpenDir()	Seek()
ReadDir()	Truncate()
CloseDir()	Delete()
Open()	Rename()

*\*Operating system specific implementations for these APIs vary. Please refer to Developer's Guides and API References included with the SDK for the applicable operating system port or visit our website.*

### Software Development Kit

ANSI C source, Developer's Guide, API reference, and validation utilities.

### Licensing and Support

Flexible runtime license structure. Royalty-free options may be available. Annual support subscriptions, with two service level options, give you e-mail and phone access to Datalight file system experts.

### Free 30 Day Evaluation

Pre-configured, limited binary evaluation versions are available for download from our website at no charge. Source code evaluation requires a Source Code Evaluation Agreement.

### About Datalight

Datalight is the software expert for reliable data storage on devices. For over 25 years, Datalight has provided trusted solutions that have been deployed across all segments of the embedded industry—from cellphones to satellites to submarines. Our patented products have been proven to speed time to market for development platform and device manufacturers.

In Europe contact Logic Technology for more information:  
[www.logic.nl](http://www.logic.nl)  
[www.LogicTechnology.de](http://www.LogicTechnology.de)