



































Interprocess Communication

Shared Memory

- Ideal for large data
- Avoids data movement
- ESQA overhead to map storage

Semaphores

 Generally used to serialize shared memory

Named Pipes

- First-in first-out Queue
- Intended for point to point
- Can have multiple readers and writers

• Message Queues

- Strength in n to 1 or n to m communications
- Ideal for small messages feeding a server

Signals

- Basis for error handling
- Can be from system events or application programming

Local Sockets

 Used by servers that have the option of local or remote clients

AGENDA

HFS & ZFS Overview





















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zSeries File System (zFS)

z/OS zSeries File System

Overview

- A new UNIX file system to meet the changing needs of new workloads
- Complementary to the existing Hierarchical File System (HFS)
- In many environments we have seen significant performance improvements over HFS.
- Based on the DCE Local File System used by DFS
- Improved crash recovery
- Underlying architecture supports additional function
- zFS file systems can be shared in a sysplex

z/OS zSeries File System

- Overview
 - zFS is a Physical File System (PFS) that runs in a Colony Address Space
 - zFS needs a FILESYSTYPE entry in BPXPRMxx
 - FILESYSTYPE TYPE(ZFS) ENTRYPOINT(IOEFSCM) ASNAME(ZFS)
 - zFS requires a JCL PROC in PROCLIB
 - zFS file systems are mounted just like HFS file systems except the TYPE is ZFS
 - zFS first became available in z/OS V1R2
 - Available for OS/390 V2R10 and z/OS V1R1 via APAR OW51780

z/OS zSeries File System

- Administration
 - Format a zFS aggregate
 - IOEAGFMT
 - Manage a zFS aggregate / file system
 - zfsadm command suite
 - pfsctl API
 - Define configuration options for aggregates
 - IOEFSPRM parmlib member
 - Define zFS to UNIX System Services
 - add FILESYSTYPE entry in BPXPRMxx parmlib member
 - Define zFS PROC







