

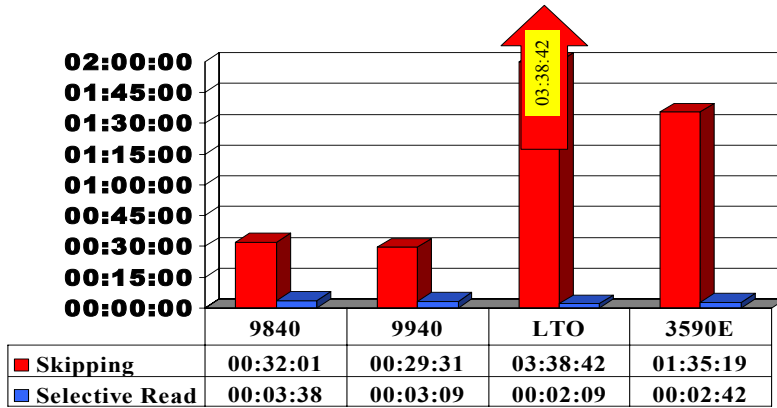
## Tape drives Positioning Tests

- Done last year during evaluation of our data handling replacement.
- How do various tape drives behave in a positioning intensive environment.
- Tests done through home written C program, not necessarily optimised for high bandwidth read and writes.
- Test does not take in account the mount, dismount, load and unload drive characteristics.

## Sequential I/Os.



## Retrieve fields separated by short intervals.

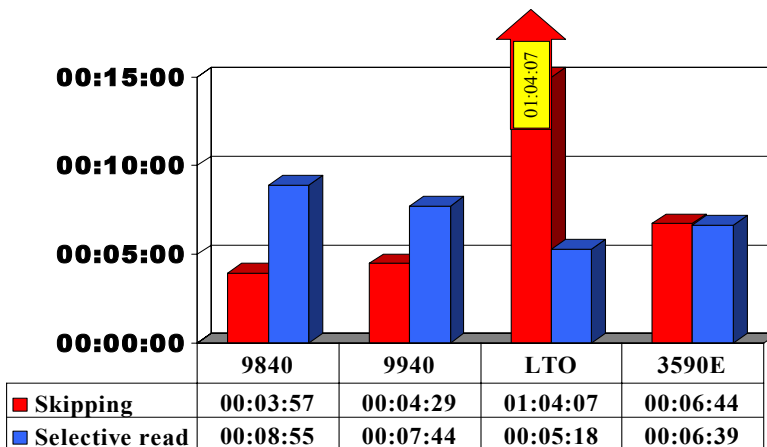


Retrieve 6000 130 KB fields, separated by 130 and 300KB intervals.

HPSS User Forum, Indianapolis June 2002



## Retrieve fields separated by long intervals.



Retrieving 60 130 KB fields, separated by 50 and 90 MB intervals.

HPSS User Forum, Indianapolis June 2002



## **Conclusions.**

- **3590 and LTO tape drives are the best suited for long sustained I/O operations.**
- **LTO unsuitable for positioning intensive operations.**
- **STK provides the positioning intensive access tape drives.**
- **One needs to investigate when it becomes more efficient to “read and discard” unnecessary information, instead of skip it.**