Using Track-Following Servo Technology in Fujitsu Tape Drives

Sixth Goddard Conference on Mass Storage Systems and Technologies
Fifteenth IEEE Symposium on Mass Storage Systems
March 23-26, 1998

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Fujitsu Computer Products of America
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Fujitsu Limited

- World’s second largest computer company
- More than $36 billion in sales
- Employs 162,000 people
- Major ½-inch tape drive manufacturer
Tape Technology Improvements

- Higher bit density
  - Higher coercivity media
  - Improved modulation codes
  - "Predictive" signal decoding
- Higher track density
  - Track-following
Data Recovery

- Reliable data recovery options
  - Write wide, read narrow
  - Move head to follow track
Track-following Technology

• Track-following procedure:
  – Locate pre-formatted servo reference track
  – Head servo follows the reference tracks
  – Write or read data biased from reference track
Fujitsu Diana4

- IBM Magstar™ compatible format
- Specifications

<table>
<thead>
<tr>
<th>Tape</th>
<th>Capacity</th>
<th>Transfer rate</th>
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</thead>
<tbody>
<tr>
<td>Short length</td>
<td>10GB</td>
<td>13.5 MB/sec</td>
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<tr>
<td>IBM mode</td>
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<tr>
<td>Long length</td>
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<td>Fujitsu mode</td>
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Native mode