


**NIST**

UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899

May 15, 1991

TO: X3T9.2 Membership

FROM: Fernando Podio 
Project Leader,
Optical Media Research,
Computer Systems Laboratory,
Data Storage Group

SUBJECT: Workshop on monitoring and reporting techniques for error rates and error distributions in optical disk systems.

In response to the needs of Federal Government agencies, the Computer Systems Laboratory of the National Institute of Standards and Technology (NIST) is hosting a workshop on monitoring and reporting techniques for error rates and error distributions in optical disk systems. A workshop announcement is attached.

Most optical disk subsystems have no provision for reporting information through the interface to the host on error rates, error distributions, etc. However, this information would be of great use to data managers. Error rate information would include parameters such as the total number of correctable errors, maximum number of errors per interleave versus time, and the location of these errors. This information would provide data managers with a better understanding of the status of their data and indicate when it is prudent to recopy the data onto new media. Monitoring the status of data recorded on optical media is particularly important because of its anticipated use in archival applications.

The workshop will be on August 5th, in Colorado Springs, CO, in conjunction with the meeting of Technical Committee X3B11 (Optical Digital Data Disks) which takes place in the same location August 6th to 8th. The workshop will identify the state of the art on error rates monitoring and reporting techniques, and promote discussions on possible future implementations. One discussion item will be the feasibility of forming a Government/industry working group to achieve some level of consensus across industry on future error reporting techniques. I believe that this would increase the user confidence in the utilization of optical systems. The success of this effort depends in large measure on industry support.

Most optical disk drives use the SCSI interface, therefore this work may be of interest to X3T9.2 members. Although SCSI-2 has provisions that would allow the transfer of some error information through the bus, industry consensus on the subject may result in material to be incorporated in SCSI-3.

I would like to invite any interested party to participate in this workshop. If you wish to make a presentation at the workshop please inform me.

If the result of the workshop indicates sufficient interest, I intend to organize a working group with technical representatives from industry and government to develop consensus guidelines on future error monitoring and reporting techniques.

In order to reduce meeting costs, I expect to convene the working group meetings during the same week as the X3B11 meetings. The result of the working group will be a NIST publication. I expect that some of the work can be done through the mail. Your company's participation in a possible working group would be a major contribution to the success of this activity.

Another aspect of this program includes our putting together a demonstration platform at NIST (in Gaithersburg, MD) to show the state of the art in error rates monitoring and reporting techniques, and the present interface capabilities. The current available hosts are a Compaq 25e computer and a SUN SPARC Station IPC, both with SCSI interfaces. I invite contributions of drives and software which demonstrate error reporting capabilities.

You can contact me at 301-975-2947. My FAX number is 301-590-0932.

Workshop
on
**Monitoring and Reporting Techniques for Error
Rates and Error Distributions in Optical Disk Systems**
Hosted by NIST

Date: 5 August 1991

Time: 0900-1700

Location: Colorado Springs Marriott
5580 Tech Center Drive
Colorado Springs, CO
USA

PURPOSE: Identify the state of the art on error rates monitoring and reporting techniques in optical disk systems and promote discussions on possible future implementations.

Preliminary Agenda

1. Welcome and Introductions
2. Overview and Current Status
 - Error Measurement Capabilities on Current Logic Chips
 - Error Recovery Techniques
 - Capabilities of the Drives/Interfaces to Transfer Information
3. Plans for an Industry/Government Working Group
 - Feasibility
 - Goals and Scope of Work
4. Adjourn

Registration Form

Workshop

on

Monitoring and Reporting Techniques for Error Rates and Error Distributions in Optical Disk Systems

Please fill out the information requested below and return it to:

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Bldg. 225, Room A61
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FAX No.: (301) 590-0932

1. Full Name _____

2. Company/Affiliation _____

Address _____

Telephone: _____

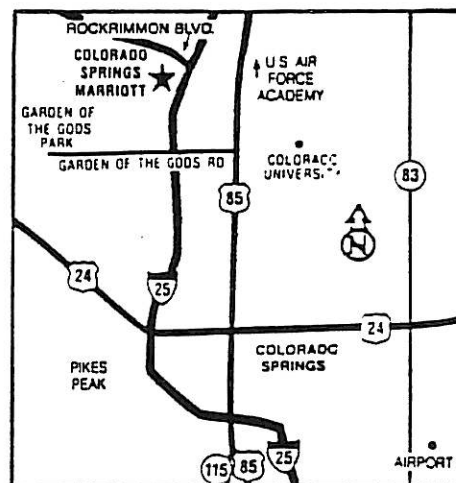
FAX: _____

Please register before July 15th.

COLORADO SPRINGS Marriott®

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LOCATION	Conveniently situated just off of I-25 in the Colorado Springs Technology Center, 2 miles south of the U.S. Air Force Academy and just minutes from scenic Garden of the Gods.
310 GUEST ROOMS AND SUITES	Deluxe guest rooms. Concierge level and eight suites, in-room movies, free HBO, cable, CNN and ESPN, remote control television, alarm clocks, AM/FM radics, Non-Smoking and Women's Executive rooms.
RESTAURANTS/ LOUNGES	<i>Gratzi's Seafood Grill</i> —Serving breakfast, lunch and dinner, offering pasta and seafood specialties; <i>Chats</i> —Enjoy an intimate atmosphere with fine wines by the glass; the popular <i>Cahoots Lounge</i> —Open seven nights a week, high excitement, high energy is the format.
RECREATIONAL FACILITIES	Indoor and outdoor pools and whirlpools, exercise room, sauna, tennis and golf nearby.
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SPECIAL PLANS	Escape, Honeymoon, Military, and Two for Breakfast plans. Advance reservations required on a space available basis.
PLACES TO SEE/THINGS TO DO	U.S. Air Force Academy, Garden of the Gods, Cave of the Winds, U.S. Olympic Training Center, ProRodeo Hall of Champions, Flying W Ranch, Pikes Peak Cog Railway.
DIRECTIONS	From Colorado Springs Municipal Airport take Fountain Blvd. west to Circle Drive South, to I-25 North, exit 147 Rockrimmon Blvd., left at Tech Center Drive.



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