



PC-3000 FLASH DATA RECOVERY ADVANCED TRAINING

MAIN PART

1. Opportunities and perspectives for using new version of the reader (version 4.0)
2. New structure of PC-3000 Flash
3. "Direct" TECH Mode reading of memory chip. Purpose
4. Modern types of memory chips
 - ▶ TLC memory chips. Features. Problems
 - ▶ Bad Column Managment
5. New algorithms of reading the memory
 - ▶ SDR and DDR memory chips
 - ▶ «Special reading rules» of memory chips
 - ▶ WL Algorithm of reading
6. Manual adding of flash memory chips into database
 - ▶ Methods of detecting memory chips parameters detection
7. Background analysis at memory chip reading
8. Different ways of improvement final quality of memory chips reading
9. Bitmap
 - ▶ Bitmap as a tool for detection page transformation
10. Manual and Automatical ways of inserts determination
 - ▶ Bitmap as a tool for verifying the correctness of removing
 - ▶ Another ways of removing "Bad" inserts
11. Map
 - ▶ Creating map considering legend
 - ▶ Map analysis
 - ▶ Save and load with Map
12. Readout mode



PC-3000

- ▶ Creating sub map with ECC
- ▶ Analysis of mode parameters
- ▶ Log analysis

13. ReadRetry command. Why it is necessary to use it

14. Special preparation modes

- ▶ Channel synchronization
- ▶ Block Rotation
- ▶ Joining by block for N sources
- ▶ Joining by Qword for N sources
- ▶ Joining by bytes for N sources
- ▶ Bank separation

15. Advanced input mode for "Block Number Type 1" algorithm

16. Compiler inside PC-3000 Flash

17. Features of some popular controllers

- ▶ Analysis of required data preparations and operations during data recovery
- ▶ Work features of some translators
- ▶ SM2236
- ▶ SM2234H
- ▶ SM3257EN
- ▶ PS2251-03
- ▶ Other

18. Analysis and improvement of final image

- ▶ Data quality Analysis
- ▶ Block version
- ▶ Shifts between banks
- ▶ Disk analysis
- ▶ Partition analysis
- ▶ Adding of virtual partition