

Scan Failure Diagnostics I/F Software

- **Generate Test Program (LPAT)**
Generate Tester pattern to match tester capability
Support Pattern Multiplex for High-Speed Testing
- **Generate Test Program (TDL)**
Generate TDL to match tester capability
- **Generate Xref-File (Cross-reference file)**
Connect Address between ATPG Pattern and LPAT Pattern
- **Generate Failure-Data file for ATPG Failure Diagnostics**
Synthesize test results and Xref-File
- **Link with CAD navigation software**

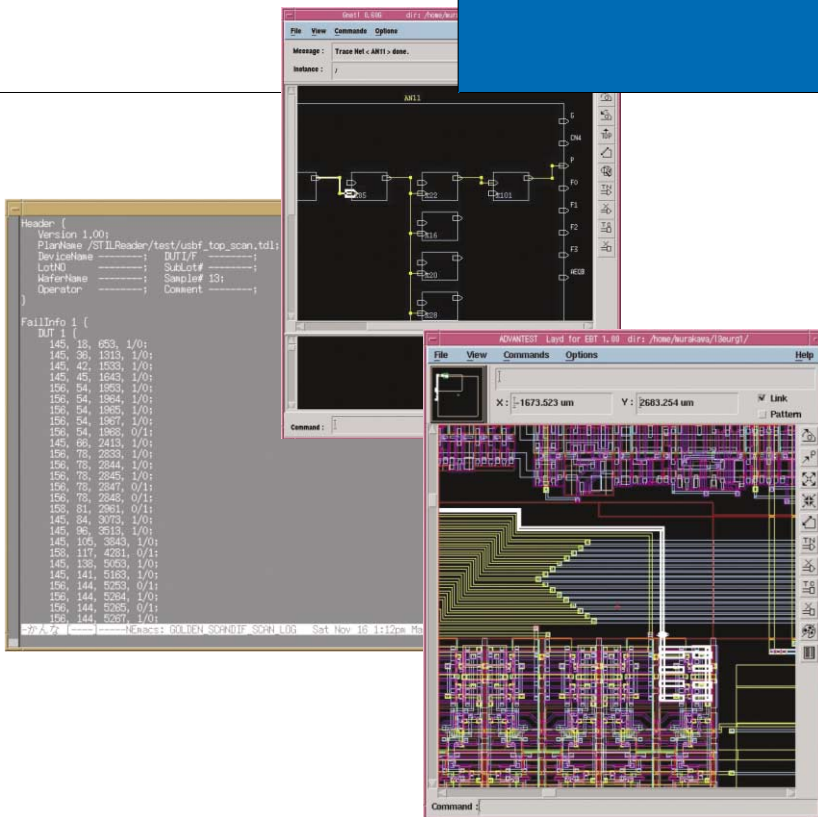
For QTAT, Low-Cost of SCAN Failure Diagnostics

On SoC Business market, speeding time-to-market, improving yields on production and reducing test costs have been more focused on.

According to shrinking device sizes, high-speeding and installing DFT methods for test cost reduction, semiconductor device character is getting more complicated and the technical gap between design and manufacturing test is now major hurdle.

Under this environment, if failure has happened on engineering sample test or delivery test on design, it would take much time for that failure analysis.

Scan Failure Diagnostics I/F Software



Target

- **ATPG and Failure Diagnostics Tools**
Mentor Graphics, Corp.
: FastScan™
Synopsys, Inc.
: TetraMAX®
Cadence Design Systems, Inc.
: Encounter Test
- **ATPG Output data**
STIL IEEE Std 1450-1999
- **SoC Test System**
T66xx/T65x Series
Viewpoint R7.02 or later

ADVANTEST CORPORATION
Shinjuku-NS building, 4-1 Nishi-Shinjuku
2-chome Shinjuku-ku, Tokyo 163-0880, Japan
Tel: +81-3-3342-7500 Fax: +81-3-3342-8045
<http://www.advantest.co.jp>

Advantest America, Inc
3201 Scott Blvd., Santa Clara, CA 95054, U.S.A
Tel: +1-408-988-7700 Fax: +1-408-987-0691

Advantest (Europe) GmbH
Stefan-George-Ring 2, D-81929 Munich, Germany
Tel: +49-89-99312-0 Fax: +49-89-99312-101

Advantest (Singapore) Pte. Ltd.
438A Alexandra Road, #8-03/06 Alexandra
Technopark Singapore 119967
Tel: +65-6274-3100 Fax: +65-6274-4055

Advantest Taiwan, Inc.
No.1 Alley 17, Lane 62, Chung-Ho Street,
Chu-Pei City, Hsin Chu Hsien, Taiwan, R.O.C.
Tel: +886-3-5532111 Fax: +886-3-5541168

Advantest Korea Co., Ltd.
16F, MIRA EWASARAM Bldg., 942-1, Daechi-Dong,
Kangnamu-ku, #135-280, Seoul, Korea
Tel: +82-2-3452-7157 Fax: +82-2-3452-0370