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MBIST debug data logfile specification 1.0.

File Content

All entries (key and value) have to be ASCII for OS independency.
Maximum number of characters per value is 20 (excluding identifier and “:”).

MBIST Debug Data Logfile Version

mandatory @ start of each file

```
MBIST_LOGFILE_VERSION:1.0
```

Global Info

mandatory @ start of each new wafer, optional before each new data info

```
BEGIN_GLOBAL_INFO:
DESIGN:BigChip // Product
LOT:ZA123456.12 // Lot number (incl. split if exists)
WAFER:023 // Wafer number/name
WAFDATE:27122003 // DDMMYYYY
WAFTIME:204356 // hhmmss
PROGRAM:23.003 // Test program info
TESTMODE:S11P // Test mode info
TESTERNAME:DRSE0235 // Tester name
OPERATOR:HEINO // Operator name
END_GLOBAL_INFO:
```

Debug Data Info

mandatory @ start of each data entry

```
BEGIN_DATA_INFO:
DIEXPOS:11 // Die position (Prober X-Dir)
DIEYPOS:14 // Die position (Prober Y-Dir)
SITE:0 // Site number
TESTNUMBER:23301 // Test number
DATATESTFLAG:0 // Flag for data entry
END_DATA_INFO:
```

Note on `DATATESTFLAG`:

```
0 reading of debug data ok
1 error in frame format
2 maximum number of frames read
more test flags can be defined
```

Debug Data Entry

Here the “Raw information” shifted out by the MBIST controller is stored.

```
BEGIN_DATA_ENTRY:
HHLLLLLL…LLHHLLHHHH // MBIST debug data frame n
HHLLLLLL…LHLLLLHHHH // MBIST debug data frame n+1
HHLLLLLL…LHLHLLHHHH // MBIST debug data frame n+2
END_DATA_ENTRY:
```

File Completeness Info

mandatory @ end of each file

```
FILE_COMPLETE_FLAG:0
// 0 file completely written
// 1 maximum file size reached
// missing error during file generation
```

Sample File

MBIST_LOGFILE_VERSION:1.0
BEGIN_GLOBAL_INFO:
DESIGN:M2899D
LOT:ZA123456.12
WAFER:023
WAFDATE:27122003
WAFTIME:204356
PROGRAM:23.003
TESTMODE:S11P
TESTERNAME:DRSE0235
END_GLOBAL_INFO:
BEGIN_DATA_INFO:
DIEXPOS:11
DIEYPOS:14
SITE:0
TESTNUMBER:23301
DATATESTFLAG:0
END_DATA_INFO:
BEGIN_DATA_ENTRY:
LLLLLLLLLHLLLLLLLLLLLLLLLLLLLLLLLLLLLHLLLLLHHLHLLHHLLH
HHHHHHHHHLHHHHHHHHHHHHHHHHHHHHHLLLLLHLLLLHLLLHLLHLLLH
LLLLLLLLLHLLLLLLLLLLLLLLLLLLLLLLLLLLLHLLLLLHHLHLHHLLLH
HHHHHHHHHLHHHHHHHHHHHHHHHHHHHHLLLLLHLLLLHLLLHLHHHLLH
LLLLLLLLLHLLLLLLLLLLLLLLLLLLLLLLLLLLLHLLLLLHHLHLHLHLLH
LLLLLLLLLHLLLLLLLLLLLLLLLLLLLLLLLLLLLHLLLLLHHLHHHHHLLH
HHHHHHHHHLHHHHHHHHHHHHHHHHHHHHLLLLLHLLLLHLLLHHHHHLLH
END_DATA_ENTRY:
BEGIN_DATA_INFO:
DIEXPOS:15
DIEYPOS:12
SITE:0
TESTNUMBER:23301
DATATESTFLAG:0
END_DATA_INFO:
BEGIN_DATA_ENTRY:
HHHHHHHHHHHHHHHHHHLHHHHHHHHHHHHHHLHLLHLHLLHHLLHLLHHHLH
HHHHHHHHHHHHHHHHHHLHHHHHHHHHHHHHLHLLHLHLLHHLLHLLHLLLH
HHHHHHHHHHHHHHHHHHLHHHHHHHHHHHHHLHLLHLHLLHHLLHLHHLHLH
HHHHHHHHHHHHHHHHHHLHHHHHHHHHHHHHLHLLHLHLLHHLLHLHHHLLH
HHHHHHHHHHHHHHHHHHLHHHHHHHHHHHHHLHLLHLHLLHHLLHHHHHLLH
END_DATA_ENTRY:
BEGIN_DATA_INFO:
DIEXPOS:15
DIEYPOS:12
SITE:0
TESTNUMBER:23401
DATATESTFLAG:0
END_DATA_INFO:
BEGIN_DATA_ENTRY:
HHLLLLLLLLLLLLHHHHLHHHHHHHLHLLHLHLLHHLLHLLHHHLH
HHHHHHHHHHHHHHHHHHLHHHHHHHLHLLHLHLLHHLLHLLHLLLH
HHLLLLLLLLLLLLHHHHLHHHHHHHLHLLHLHLLHHLLHLHHLHLH
HHHHHHHHHHHHHHHHHHLHHHHHHHLHLLHLHLLHHLLHLHHHLLH
HHHHHHHHHLLHHHHHHHLHHHHHHHLHLLHLHLLHHLLHHHHHLLH
END_DATA_ENTRY:
FILE_COMPLETE_FLAG:0