

xGDSImport.py

Python utility to import GDS files into Mentor Graphics XpeditionPCB.

This projects used the [Python GDSII library](#) from Eugeniy Meshcheryakov. The source code repository for this library no longer resolves so the source has been incorporated into this project.

Usage

```
C:\Users\mike\Documents\xGDS>python xGDSImport.py --help
//
// Xpedition GDS Import Utility
//
// Version: 1.0-beta-2, Sat July 02 06:30:54 EDT 2016
//

-d --debugReport detailed information while reading GDS
-g --gui Use GUI, default when missing --gds option
-i --gds <gdsfile>GDS input file
-h --help Display this help content
-l --lockserver Lock Xpedition Server to improve performance
-p --progress Report progress during GDS import
-r --replace Replace existing user layers when importing GDS
-s --shuffle Shuffle color patterns assigned to GDS user layers
-t --transaction Wrap GDS import in a Transaction to improve performance
-v --version Print version number
-w --work <path> Initial path for GDS file selection, default to current directory

Usage: xGDSImport.py --gds <input.gds>
```

Sample Execution

```
C:\Users\mike\Documents\xGDS>python xGDSImport.py --gds P9_Flat.gds --replace --transaction
//
// Xpedition GDS Import Utility
//
// Version: 1.0-beta-2, Sat July 02 06:30:54 EDT 2016
//
//
// Command line options
//
// Note: --gds set to: P9_Flat.gds
```

```
// Note: --transaction option enabled
//
// Note: GDS Import Python script connected to PCB database "Demo-S.pcb".
// Note: GDS layer 74.30 will be imported.
// Note: GDS layer 5.3 will be imported.
// Note: GDS layer 5.4 will be imported.
// Note: Starting Transaction ...
// Note: User Layer "GDS_74.30" setup for GDS import.
// Note: User Layer "GDS_5.3" setup for GDS import.
// Note: User Layer "GDS_5.4" setup for GDS import.
// Note: Ending Transaction ...
// Note: Processed 426 records in GDS source file.
// Note: Start Time: Sat, 02 Jul 2016 07:49:52
// Note:End Time: Sat, 02 Jul 2016 07:49:58
// Note:Run Time: 0:00:06
// GDS import complete, check for errors. (xGDSImport.py)

C:\Users\mike\Documents\xGDS>
```

Notes

This script is only supported on Windows. There are no Python COM bindings available for Xpedition running on Linux.

Compatibility

This script has been tested with Python 2.7 and Python 3.5.