

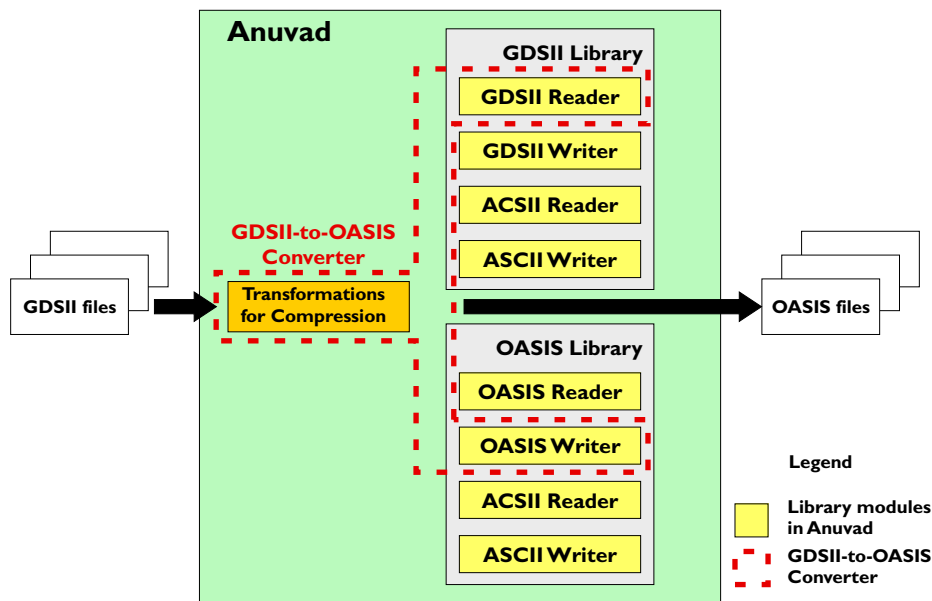
GDSII – OASIS Tools :Anuvad

SoftJin has developed OASIS to GDSII libraries and a bi-directional GDSII-to-OASIS translator. OASIS is the upcoming standard for layout and EB data, which is expected to replace GDSII and MEBES in subsequent years. Some companies have already started supporting OASIS. The foundries are expected to follow suit sooner than later. This converter would allow the customer to have

- ▶ Conversion of legacy GDSII data into OASIS data to be seamlessly integrated into OASIS based design flow
- ▶ Early adoption into OASIS based methodology which is expected to be adopted by the industry within next few years

The GDSII-to-OASIS converter handles all geometric constructs in GDSII. GDSII-to-OASIS converters along with GDSII/OASIS reader/writer libraries are available for free source code download at www.softjin.com/html/anuvad.htm. Please find below the architecture and components in Anuvad as well as performance benchmark results.

Diagram showing Libraries included in Anuvad and the GDSII-to-OASIS Converter



Internal Performance Data

No.	Set	GDSII Size	OASIS Size	Compression Ratio
1	A	174,744,638	276,483	632.0
2	E	263,643,136	220,314	1196.7
3	C	337,809,266	4,492,288	75.2
4	A	418,628,412	4,302,099	97.3
5	A	719,812,025	23,431,756	30.7
6	A	1,039,144,960	7,156,634	145.2
7	B	1256,468,671	84,759,308	14.8
8	B	258,752,308	85,117,889	14.8
9	C	1,262,421,268	77,271,312	16.3
10	A	12,649,387,008	116,250,078	22.8
TOTAL		9,380,811,692	403,278,161	23.3

External Benchmark Data

Tool	GDSII Size	OASIS Size	Compression Ratio
Anuvad	3,804,368,802	197,279,311	19.28
Competitor		287,619,458	13.23

1. Set A - Real-life designs in hierarchical GDSII from IC design company A
2. Set B - Real-life benchmark designs in hierarchical GDSII from foundry B
3. Set C - Real-life designs in hierarchical GDSII from foundry C
4. Set D - Real-life designs in flattened GDSII from company D
5. Set E - Assorted design data from academic institutions