

NAME

iasl - Intel ACPI compiler/decompiler

SYNOPSIS

iasl [-2**cefghl**] [-b *type*] [-d *file*] [-dc *file*] [-hc] [-hr] [-i *type*] [-ln] [-ls] [-oa] [-of] [-oi] [-on] [-ot] [-p *prefix*] [-s *type*] [-t *type*] [-vi] [-vo] [-vr] [-vs] [-x *level*] [-w *level*] *input-file*

DESCRIPTION

The **iasl** utility is a compiler/decompiler for ACPI Source Language (ASL) and ACPI Machine Language (AML). Major features of **iasl** include:

- Full support for the ACPI 3.0b Specification including ASL grammar elements and operators.
- Extensive compiler syntax and semantic error checking, especially in the area of control methods. This reduces the number of errors that are not discovered until the AML code is actually interpreted (i.e., the compile-time error checking reduces the number of run-time errors).
- Multiple types of output files, including formatted listing files with intermixed source, several types of AML files, and error messages.

OPTIONS

-2 Emit ACPI 2.0 compatible ASL code.

-b -Sm p | t | b Sm

Create compiler debug/trace file (**.txt*). Types: Parse/Tree/Both.

-c Parse only, no output generation.

-d file Disassemble AML to ASL source code file (**.dsl*).

-dc file

Disassemble AML and immediately compile it. (Obtain DSDT from current system if no input file.)

-e Generate **External()** statements for unresolved symbols.

-f Ignore errors, force creation of AML output file(s).

-g Get ACPI tables and write to files (**.dat*).

- h** Additional help and compiler debug options.
- hc** Display operators allowed in constant expressions.
- hr** Display ACPI reserved method names.
- i -Sm a | c Sm**
Create assembler or C include file (**.inc* or **.h*).
- l** Create mixed listing file (ASL source and AML) (**.lst*).
- ln** Create namespace file (**.nsp*).
- ls** Create combined source file (expanded includes) (**.src*).
- oa** Disable all optimizations (compatibility mode).
- of** Disable constant folding.
- oi** Disable integer optimization to Zero/One/Ones.
- on** Disable named reference string optimization.
- ot** Display compile times.
- p *prefix***
Specify filename prefix for all output files (including *.aml*).
- s -Sm a | c Sm**
Create AML in assembler or C source file (**.asm* or **.c*).
- t *a/c*** Create AML in assembler or C hex table (**.hex*).
- vi** Less verbose errors and warnings for use with IDEs.
- vo** Enable optimization comments.
- vr** Disable remarks.
- vs** Disable signon.

-x level

Set debug level for trace output.

-w level

Set warning level.

SEE ALSO

acpi(4), acpidump(8)

HISTORY

The **iasl** utility is provided with Intel ACPI-CA. It first appeared in FreeBSD 5.2.

AUTHORS

The **iasl** utility was written by Intel. This manual page was written by Nate Lawson.