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E.1 Introduction

The ASEAM3.0 program comes on several diskettes. The files on these diskettes contain compiled code, source code, sample data files, and bin temperature and solar data files for forty-six stations across the United States.

ASEAM3.0 files are described briefly below. For each file, the filename (first eight characters), filename extension (three characters), and file size (bytes) are listed.

The filename (first eight characters) generally describes the function of the program (e.g., `AS3MENU' is the main menu program).

The filename extension (last three characters) generally describes the file type. The following extensions are used in ASEAM3.0:

E.2 File Types

E.2.1 Program Files

.BAS - basic source code. There is a corresponding .EXE (compiled) file for each basic source code program.

.EXE - executable program. These are compiled programs and there is a corresponding .BAS program for each executable program.

E.2.2 Data Files

.DAT - data file. These files contain data that are read by the programs.

.PRN - data file in LOTUS (tm) compatible form.

.RAN - random data file. These files are "random access" data files that are read by the programs.

.TMP - temporary data files. These files contain calculation results that is passed between calculation programs

.TXT - text data file. These data files contain primarily text.

.FRM - input form text files. These contain the abbreviated input forms found in Appendix B.7.

.RPF - report format files. These files specify the format of various reports.

E.2.3 Input Screen Files

The input screen files contain data for formatting the screen appearance, setting field lengths, help messages, error limits, default values, etc. These are covered in more detail in Appendix C.

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There are several extensions used for the input screen files:

.LIS - loads input screen (used with AS3LDINP)
.SIS - systems input screen (used with AS3SYINP)
.PIS - plant input screen (used with AS3PLINP)
.MIS - menu input screen (used with AS3MENU)
.LSD - this extension is used for several input programs: Weather/Solar data input, ECO input, and Quick Input.

E.2.4 Bin Temperature Weather Data Files

The weather files containing the bin temperature data can have three different extensions depending on the type of bin data used:

.AWD - ASHRAE weather data (bin data stored in six 4 hour blocks)
.BWD - Battelle weather data (bin data stored in eight 3 hour blocks)
.DWD - DOD weather data (bin data stored in three 8 hour blocks)

See Appendix A for a description of these files.

E.2.5 Solar Data Files

.NSD - solar data files. See Appendix A for a description of these files

E.2.6 Input Data Files (User Entered Data)

The data files you create in the various input programs each have different extension:

.LID - loads input data (created in AS3LDINP)
.SID - system input data (created in AS3SYINP)
.PID - plant input data (created in AS3PLINP)
.QID - quick input data (created in AS3QKINP)
.DAT - BLCC input data (created in BLCC)
.LEC - loads eco input data (created in AS3ECOIN)
.SEC - systems eco input data (created in AS3ECOIN)
.PEC - plant eco input data (created in AS3ECOIN)

E.2.7 Specify Analysis Data Files

.SRC - single run mode specification data file
.BRC - batch run mode specification data file
.PRC - parametric run mode specification data file
.ERC - single eco run mode specification data file
.MRC - multiple eco run mode specification data file

E.2.8 Miscellaneous Files

.BAT - batch file. These contain DOS commands used for installing ASEAM3.0

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.WK1 - lotus (tm) worksheet file.

.RPF - report format files used with stand-alone reports program.

E.3 ASEAM3.0 Directory Files

The following files should be on the ASEAM3.0 directory.

filename.ext	description
=====	=====
AS3CPIP.EXE	coordinated parametric input program
AS3LDINP.EXE	loads input program
AS3MENU.EXE	main menu program
AS3PLINP.EXE	plant input program
AS3SYINP.EXE	systems input program
AS3CENTR.EXE	central system calculation program
AS3COMLS.EXE	common block deletion between loads and systems programs
AS3COMSP.EXE	common block deletion between systems and plant programs
AS3ECON.EXE	compares runs - performs economic analysis
AS3LOADC.EXE	load calculation program
AS3PLANT.EXE	plant calculation program
AS3PROCL.EXE	loads pre-processor
AS3PROCP.EXE	plant pre-processor
AS3PROCR.EXE	run pre-processor
AS3PROCS.EXE	systems pre-processor
AS3REPRT.EXE	report generator program
AS3ECOIN.EXE	eco input program
AS3LDREP.EXE	load report (data echo) program
AS3PLREP.EXE	plant report (data echo) program
AS3QKINP.EXE	quick input program
AS3SYREP.EXE	system report (data echo) program
AS3WDINP.EXE	weather and solar data input program
AS3WDREP.EXE	weather and solar report program
AS3UNITC.EXE	unitary systems calculation program
BRUN45.EXE	required to run compiled BASIC code (MicroSoft)
LIDAYCDT.LIS	loads input - daylighting control screen
LIDAYLDT.LIS	loads input - daylighting screen
LIDIVRDT.LIS	loads input - diversity factors screen
LIDOORDT.LIS	loads input - doors screen
LIELECDT.LIS	loads input - electrical equipment screen
LIINFLDT.LIS	loads input - infiltration screen
LILITEDT.LIS	loads input - lighting screen
LIMCONDT.LIS	loads input - miscellaneous conduction screen
LIMONDDT.LIS	loads input - monthly diversity factors screen
LIMSENDT.LIS	loads input - miscellaneous sensible loads screen
LIOCCSDT.LIS	loads input - occupancy hours screen
LIPEOPDT.LIS	loads input - people screen
LIPRJ2DT.LIS	loads input - building/project 2 screen
LIPROJDT.LIS	loads input - building/project 1 screen
LIROOFDT.LIS	loads input - roofs screen

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LISHADDT.LIS
LIWALLDT.LIS
LIWNDODT.LIS
LIZONEDT.LIS
MICONDAT.MIS
MIDRIVES.MIS
MIECO2DT.MIS
MIECODAT.MIS
MIMECO2D.MIS
MIMECO3D.MIS
screen
MIOUT1DT.MIS
MIOUT2DT.MIS
MIPAR1DT.MIS
MIPAR2DT.MIS
screen
MIPAR2N2.MIS
screen
MIPAR2NW.MIS
screen
MIPAR3DT.MIS
screen
MIRUNDAT.MIS
PIABCDAT.PIS
PIBLRDAT.PIS
PICENDAT.PIS
PIDBCDAT.PIS
PIDHWDAT.PIS
PIENEDAT.PIS
PIMECDAT.PIS
PIRECDAT.PIS
PITOWDAT.PIS
SIAIRDAT.SIS
SIBBDAT.SIS
SICLGDAT.SIS
SIDXDAT.SIS
SIFANDAT.SIS
SIFURDAT.SIS
SIHPCDAT.SIS
SIHPHDAT.SIS
SIHTGDAT.SIS
SIHUMDAT.SIS
SIOACDAT.SIS
SIPRHDT.SIS
SISYSDAT.SIS
SIZONDAT.SIS
PVINPDES.TXT
PVOUTDES.TXT
IESDAYL.DAT
AS3DRIVE.DAT
HOURLYDT.RAN
ORIENTDT.RAN
BATCHCOM.BAT
QFILES.DFT

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loads input - external shading screen
loads input - walls screen
loads input - windows screen
loads input - zone screen
specify analyses - configuration screen
specify analyses - data and weather subdirectory
specify analyses - single eco specification screen
specify analyses - eco base case screen
specify analyses - multiple eco screen
specify analyses - multiple eco specification
specify analyses - output screen (loads)
specify analyses - output screen (systems/plant)
specify analyses - parametric base case screen
specify analyses - parametric input variable
specify analyses - coordinated parametric input
specify analyses - coordinated parametric input
specify analyses - parametric output variable
specify analyses - single/batch files screen
plant input-absorption chiller screen
plant input-boiler screen
plant input-centrifugal chiller screen
plant input-double bundle chiller screen
plant input-domestic hot water screen
plant input-energy cost and conversion screen
plant input-miscellaneous energy consumption screen
plant input-reciprocating chiller screen
plant input-cooling tower screen
systems input-zone air screen
systems input-baseboard screen
systems input-cooling screen
systems input-direct expansion screen
systems input-fan screen
systems input-furnace screen
systems input-heat pump cooling screen
systems input-heat pump heating screen
systems input-heating screen
systems input-humidification screen
systems input-outside air screen
systems input-preheat screen
systems input-system type screen
systems input-zone-system assignment screen
parametric variable input descriptions
parametric variable output descriptions
data file for daylighting calculations
data file storing drives and subdirectories
data file for load calculations
data file for load calculations
file for compiling ASEAM3.0
contains listing of quick input default files

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QIBLDGDF.PRN
QICLIMDF.PRN
QINONDDF.PRN
QISPCEDF.PRN
QIZONEDF.PRN
REP1PABS.RPF
REP1PBLR.RPF
REP1PCEN.RPF
REP1PDBC.RPF
REP1PDBH.RPF
REP1PDHW.RPF
REP1PREC.RPF
REP1PTOW.RPF
REP1SA.RPF
REP1SB.RPF
REP1SC.RPF
REP1SD.RPF
REP1SLDS.RPF
OIBBDAT.LSD
OICLGDAT.LSD
OIDAYCDT.LSD
OIDAYLDT.LSD
OIDIVRDT.LSD
OIDOORDT.LSD
OIDXDAT.LSD
OIFANDAT.LSD
OIFURDAT.LSD
OIHPCDAT.LSD
OIHPHDAT.LSD
OIHTGDAT.LSD
OIHUMDAT.LSD
OIINFLDT.LSD
OILITEDT.LSD
OIMCONDT.LSD
OIMELEDT.LSD
OIMSENDT.LSD
OIOACDAT.LSD
OIOCCSDT.LSD
OIPRHDT.LSD
OIPRJ2DT.LSD
OIROOFDT.LSD
OIWALLDT.LSD
OIWNDODT.LSD
OIZONEDT.LSD
OIABCDAT.LSD
OIDHWDAT.LSD
OIMECDAT.LSD
screen
OICENDAT.LSD
OIDBCDAT.LSD
OIRECDAT.LSD
OITOWDAT.LSD
OIENEDAT.LSD
OIBLRDAT.LSD

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building default data file for quick input
climate default data file for quick input
miscellaneous default data file for quick input
space default data file for quick input
zone default data file for quick input
report format file for absorption chiller
report format file for boiler
report format file for centrifugal chiller
report format file for double bundle chiller
report format file for double bundle chiller
report format file for domestic hot water
report format file for reciprocating chiller
report format file for cooling tower
report format file for systems report SA
report format file for systems report SB
report format file for systems report SC
report format file for systems report SD
report format file for plant report SLDS
systems eco - baseboard screen
systems eco - cooling screen
loads eco - daylighting control screen
loads eco - daylighting screen
loads eco - diversity factors screen
loads eco - doors screen
systems eco - direct expansion screen
systems eco - fan screen
systems eco - furnace screen
systems eco - heat pump cooling screen
systems eco - heat pump heating screen
systems eco - heating screen
systems eco - humidification screen
loads eco - infiltration screen
loads eco - lighting screen
loads eco - miscellaneous conduction screen
loads eco - electrical equipment screen
loads eco - miscellaneous sensible load screen
systems eco - outside air screen
loads eco - occupied hours screen
systems eco - preheat screen
loads eco - project/building screen #2
loads eco - roofs screen
loads eco - walls screen
loads eco - windows screen
loads eco - zone thermostat screen
plant eco - absorption chiller screen
plant eco - domestic hot water screen
plant eco - miscellaneous energy consumption
screen
plant eco - centrifugal chiller screen
plant eco - double bundle chiller screen
plant eco - reciprocating chiller screen
plant eco - cooling tower screen
plant eco - energy cost screen
plant eco - boiler screen

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ECODESCR.LSD
LOADECOS.LSD
LDSRESET.LSD
SYSTECOS.LSD
SYSRESET.LSD
PLNTECOS.LSD
QIPLTADT.LSD
QIPLTDAT.LSD
QIPROJDT.LSD
QIQZDFDT.LSD
QISYS1DT.LSD
QISYSDAT.LSD
WISOLDAT.LSD
WITMPDAT.LSD
DEFLTPLT.PID
DEFAULTBB.SID
DEFALTHV.SID
input
DEFAULTUH.SID
DEFLTVCVR.SID
quick input
DEFLTFCU.SID
DEFLTWAC.SID
input
DFLTAHP.SID
input
DFLTDDMZ.SID
input
DFLTFURN.SID
DFLTSZRH.SID
input
DFLTVAVR.SID
input
DFLTWSHP.SID
quick input
DFTCBVAV.SID
input
AS3TEMPL.WK1
DOGRAPH.WK1
features
SAMPLE.WK1
features
QIDEFALT.WK1

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eco description screen
loads eco - types of loads ecos screen
loads eco - zone loads reset screen
system eco - types of systems ecos screen
systems eco - plant loads reset screen
plant eco - types pf plant ecos screen
quick input system-plant assignment screen
quick input plant data screen
quick input building data screen
quick input building shape and orientation screen
quick input zone-system assignment screen
quick input system type screen
weather data input solar screen
weather data input bin temperature screen
plant default input data - quick input
system baseboard default data - quick input
system heating/ventilating default data - quick

system unitary heater default data - quick input
system constant volume reheat default data -

system fan coil unit default data - quick input
system window air conditioner default data-quick

system air source heat pump default data - quick

system dual duct multizone default data - quick

system furnace default data - quick input
system single zone reheat default data - quick

system variable air volume default data - quick

system water source heat pump default data -

system ceiling-bypass VAV default data - quick

lotus template for formatting reports
sample lotus file to demonstrate parametric

sample lotus file to demonstrate parametric

lotus template for viewing Quick Input default values

E.4 ASEAM3.0 Data Disk

The data disk contains many "DEMO" files for the input programs and output reports. The Chicago bin temperature and solar files are also found on this diskette.

E.5 ASEAM3.0 Source Code Files

The ASEAM3.0 source code files are not normally stored in the ASEAM3.0 directory.

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The first eight characters of the source code filenames are identical to the first eight characters of the executable files (EXE extension) listed above in the ASEAM3.0 DIRECTORY FILES.

E.6 Bin Temperature Weather Data

All bin temperature (all ASHRAE format - AWD filename extension) and solar weather files (NSD filename extension) have the same first eight characters to identify the station. The first six characters identify the city; the last two characters identify the location's state. Unless you plan to use weather stations as a parametric variable, only selected stations should be copied to the hard disk.

filename.ext =====	bin temperature data for =====
ALBUQRNM.AWD	Albuquerque, New Mexico
AMARLOTX.AWD	Amarillo, Texas
ATLNTAGA.AWD	Atlanta, Georgia
BIRMHMAL.AWD	Birmingham, Alabama
BISMRKND.AWD	Bismarck, North Dakota
BOISE-ID.AWD	Boise, Idaho
BOSTONMA.AWD	Boston, Massachusetts
BRNSVLTX.AWD	Brownsville, Texas
CHEYNEWY.AWD	Cheyenne, Wyoming
CHICGOIL.AWD	Chicago, Illinois
CHRLTNSC.AWD	Charleston, South Carolina
CLEVLNOH.AWD	Cleveland, Ohio
DALLASTX.AWD	Dallas, Texas
DAYTONOH.AWD	Dayton, Ohio
DENVERCO.AWD	Denver, Colorado
DESMONIA.AWD	Des Moines, Iowa
DETROTMJ.AWD	Detroit, Michigan
DODGCTKN.AWD	Dodge City, Kansas
ELPASOTX.AWD	El Paso, Texas
GRTFALMT.AWD	Great Falls, Montana
INDAPLIN.AWD	Indianapolis, Indiana
KANCTYMO.AWD	Kansas City, Missouri
LASVEGNV.AWD	Las Vegas, Nevada
LITLRKAR.AWD	Little Rock, Arkansas
LKCHASLA.AWD	Lake Charles, Louisiana
LOSANGCA.AWD	Los Angeles, California
MADISNWS.AWD	Madison, Wisconsin
MEDFRDOR.AWD	Medford, Oregon
MIAMI-FL.AWD	Miami, Florida
MINAPLMN.AWD	Minneapolis, Minnesota
NASHVLTN.AWD	Nashville, Tennessee
NEWYOKNY.AWD	New York City, New York
OKHMCTOK.AWD	Oklahoma City, Oklahoma
OMAHA-NB.AWD	Omaha, Nebraska
PHOENXAZ.AWD	Phoenix, Arizona
PITSBRPA.AWD	Pittsburgh, Pennsylvania
PORTLNME.AWD	Portland, Maine
PORTLNOR.AWD	Portland, Oregon
RALEGHNC.AWD	Raleigh, North Carolina

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SALTL CUT.AWD
SANANTTX.AWD
SEATTLWA.AWD
STLOUSMO.AWD
TALHASFL.AWD
TAMPA-FL.AWD
WASHNTDC.AWD
WEAFILES.WKS
database

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Salt Lake City, Utah
San Antonio, Texas
Seattle, Washington
St. Louis, Missouri
Tallahassee, Florida
Tampa, Florida
Washington, District of Columbia
LOTUS (tm) worksheet file for weather station

E.7 Solar Data

The solar data files have the same first eight characters as the station's bin temperature files. The filename extension for all solar data files is '.NSD'.