



System Designer ASCII Input / Output Program

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Chapter 1 Introduction

This program represents the specification of the overview of ASCII Input/Output software.

Chapter 2 Outline

This program consists of the schematic sheet created by the System Designer, or the program used to output the symbol sheet into ASCII format, and the program used to input files in ASCII format.

The program is an optional software of the System Designer and requires the license to execute ZX0301 "Schematic Designer Basic Module" and ZX0317 "System Designer ASCII Input/Output".

With this program, you can make modification to the schematic information by means of ASCII format output without having to use the interactive design.

Chapter 3 System Designer ASCII Output Program

This program outputs symbol files and schematic sheets created with the System Designer to ASCII files.

- Format of text files

The ASCII file created with this program represents one piece of data by one line.

The first field of each line is the header indicating the type of data.

The second and subsequent fields vary depending on the type of data.

- Restrictions

Output is made in SJIS code.

No instance will be output.

The ID for components, nets and net node are not reflected on ASCII input.

If the coordinate of the connections have two or more node information of terminal or path, chances are that connection may not be recovered.

3.1 Startup

This software starts from the Data Converter or a command line.

3.1.1 Startup from the Data Converter

Start the Data Converter and select the following from the [Tool] menu.

- CR5000/SystemDesigner ASCII FORMAT to CR-5000/System Designer
The following appear. Set the parameter as required.

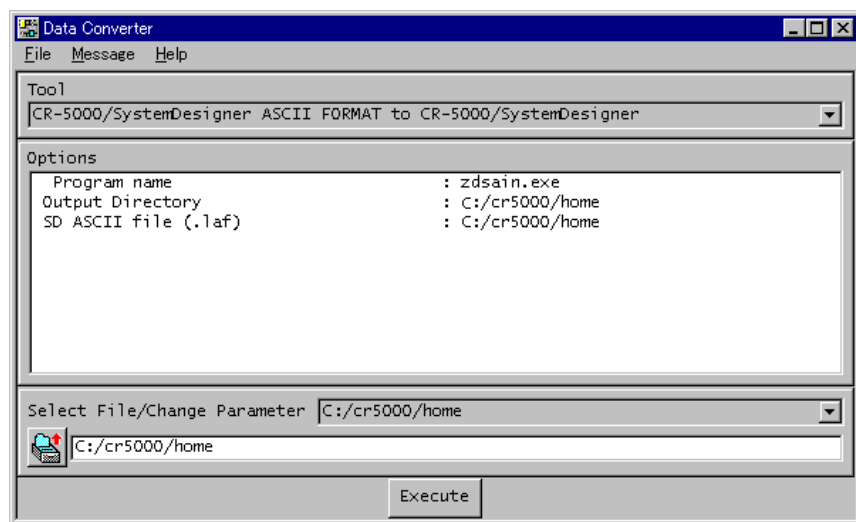


Figure 3.1 Data Converter

- Program name
The program name to be executed.
- Output File name (.laf) or Directory
Specifies the file to be output to.
If specified, the destination is a directory.
If smb or .sht is specified, the file name is specified.
- Schematic File (.cir, .sht, .smb)
Specifies the schematic sheet, symbol sheet, schematic directory or symbol directory subject to output.

3.1.2 Startup from a command line

Startup from a command line proceeds with the following format.

<code>zdsaout. exe [option] <circuit file name></code>
--

Circuit file name

The following entries can be specified for the circuit file name.

- Circuit directory (.cir)
- Schematic sheet (.sht)
- Symbol data (.smb)
- Symbol directory

Option

-o Specify the output file

When the schematic sheet (sht) or symbol data (.smb) is specified for the circuit file name,

specify the output file under the file name of xxx.laf.

When the schematic sheet (sht) or symbol directory is specified for the circuit file name,

specify the directory name.

3.2 Output

- When the circuit (.cir) is specified,
It is output to the directory specified with -o option in the format as follows:
circuit name_sheet number .laf
- When schematic sheet (.sht) or symbol sheet (.smb) is specified,
it will be output to the ASCII file (.laf) specified with -o option.
- When a symbol directory is specified,
it will be output to the directory specified with -o option in the format as follows:
symbol file name .laf

Output option

- o Specifies the output file or directory.

Destination of message files

- When a circuit (cir) or schematic sheet (sht) is specified,
the message file will be output to the circuit directory /log specified in the Schematic File.
- When a symbol file (smb) or a symbol directory is specified,
the file will be output to the directory containing the symbol specified in the Schematic File.
Error message: zdsaout.err
Warning message: zdsaout.wrn

3.3 Data structure

3.3.1 Symbol file output data composition

Symbol data LIB ENDLIB	SHT ENDSHT	Sheet information	PROP	Property
	ZONE	Zone information		
	GRID	Grid information		
	PROP	Symbol property information		
	VIEW	Symbol property viewer information		
	CIRC	Circle information		
	LINE ENDLIN	Line	POINT	Line node
	HAT ENDHAT	Hatching	HATP	Hatching node
	TEXT ENDTEXT	Text		
	PIN ENDPIN	Pin	PROP	Pin property
			VIEW	Pin property viewer

3.3.2 Circuit data output data composition

CIR ENDCIR Circuit data	DATARC ENDDATARC Data resource information	PATH	Symbol block path		
		FONT	Text table		
		LINEWIDTH	Line width table		
		LINETYPE	Line type table		
		FILL	Hatching table		
		DEFCOLOR	Default color		
		DEFWIDE	Default line width		
		DEFTYPE	Default line type		
		DEFFILL	Default fill		
		DEFFONT	Default font number		
		NOTATION	Notation		
		DISPPAR	Display parameter		
		VARIATION	Variation		
		NOMOUNT	No mount notation		
		CONTENTS	Hierarchy		
	ZONE	Zone information			
	PROP	Property information			
	VIEW	Property viewer information			
	GRID	Grid information			
	SHT	Sheet information	PROP	Sheet property	
	COMP ENDCOMP	Component information	PROP	Component property	
			VIEW	Pin property viewer	
			Component pin COMPPIN	Pin property	
				Pin property viewer	
	CIRC	Circle information			
	LINE ENDLIN	Polyline		POINT	Line node
	HAT ENDHAT	Hatching		HATP	Hatching node
	FRAME ENDFRAME	Frame information		PROP	Property
	TEXT ENDTEXT	Text			
NET ENDNET	Net	WIRE ENDWI RE	Net segme nt	SIGP Net node	

3.4 Individual data format

3.4.1 Circuit file (symbol file)

Data of the circuit file begins at CIR (LIB) and ends with ENDCIR (ENDLIB).
Put the description of circuit data between CIR and ENDCIR.

(Ex.)

CIR

-
-
-

ENDCIR

3.4.2 Property

Property data begins at PROP and ends with ENDPROP.
The data in the amount of the number of lines specified in PROP line takes the value of the property.

(Ex.)

PROP....2

The value of the property for two lines is input.

ENDPROP

3.4.3 Data with properties and property viewer

For the data (symbol, symbol pin, component, component pin, net segment header, frame) which may have properties or property viewers, put the description of the property data or property viewer data between the start line and the end line.

```
(Ex.)
COMPPIN.....
PROP
•
•
ENDPROP
•
ENDCOMPPIN
```

3.4.4 Components

You can fill the component information with component pin information. Enter the component pin information between COMP and ENDCOMP.

```
(Ex.)
COMP...
PROP...
••
••
ENDOPROP
COMPPIN.....
PROP...
•••
•••
ENDPROP
•••
```

```
ENDCOMPPIN
```

```
...
```

```
ENDCOMP
```

3.4.5 Net

You can describe the net in the format shown below.

Put the description of the property or property viewer to be added to the net between nodes.

```
NET
```

```
WIRE
```

```
SIGP          (1)
```

```
SIGP          (2)
```

```
PROP
```

```
ENDPROP
```

```
SIGP          (3)
```

```
SIGP          (4)
```

```
SIGP          (5)
```

```
ENDWIRE
```

```
WIRE
```

```
SIGP          (6)
```

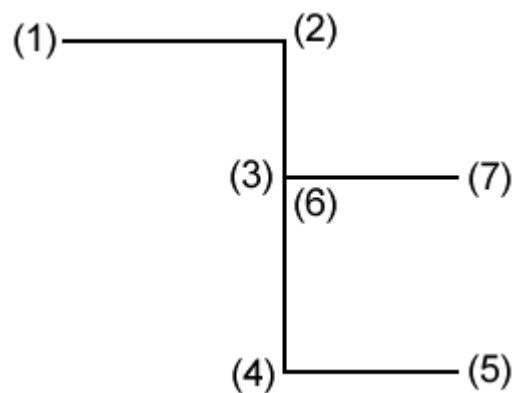
```
PROP
```

```
ENDPROP
```

```
SIGP          (7)
```

```
ENDWIRE
```

```
ENDNET
```



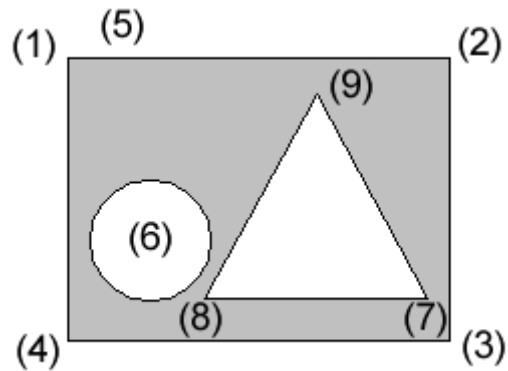
3.4.6 Hatching

For hatching output, describe the outline of a hatching first, then the window figure.

```

HAT
HATP - O      (1)
HATP - -      (2)
HATP - -      (3)
HATP - -      (4)
HATP - E      (5)
HATP C S      (6)
HATP - S      (7)
HATP - -      (8)
HATP - E      (9)
ENDHAT

```

3.4.7 Polyline

You can describe the polyline in the format shown below.
Place "A" as a flag to show the start of an arc.

LINE

POINT - (1)

POINT A (2)

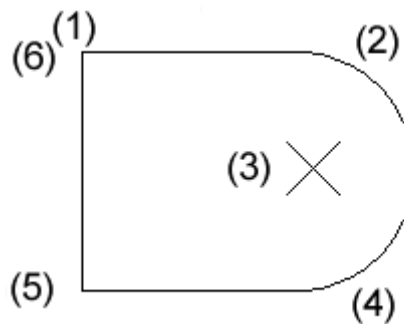
POINT - (3)

POINT - (4)

POINT - (5)

POINT - (6)

ENDLIN



3.5 Data field composition

Meaning of type

C:Text

D:Integer

F:Floating point (fourth decimal place after decimal point)

The color, line type, line font, paint type and symbol path depends on the range available with Landata.rsc.

It defaults to -1.

3.5.1 Starting a symbol

Field	1	2
Value	LIB	R

Field number	Output information	Type	Range
1	Header	C	[LIB]
2	File name	C	

3.5.2 Ending a symbol

Field	1
Value	ENDLIB

Field number	Output information	Type	Range
1	Header	C	[ENDLIB]

3.5.3 Starting a schematic sheet

Field	1	2	3
Value	CIR	sample	3

Field number	Output information	Type	Range
1	Header	C	[CIR]
2	File name	C	
3	Sheet number	D	0 < x < 1000

3.5.4 Ending a schematic sheet

Field	1
Value	ENDCIR

Field number	Output information	Type	Range
1	Header	C	[ENDCIR]

3.5.5 Zone

Field	1	2	3	4	5	6	7	8	9	10	11
Value	ZONE	1	3	1	5.000	5.000	0.000	0.000	0	A	1

Field number	Output information	Type	Range
1	Header	C	[ZONE]
2	Display ON/OFF	D	1 or 0
3	Origin position	D	0: Left lower 1: Right lower 2: Left upper 3: Right upper
4	Color	D	
5	Horizontal pitch	F	0.0<x
6	Vertical pitch	F	0.0<x
7	Horizontal offset value	F	0.0<x
8	Vertical offset value	F	0.0<x

Field number	Output information	Type	Range
9	Auto-offset mode	D	0:OFF 1: Center aligned 2: Center aligned (Intersection)
10	Horizontal start character	C	0 ~ 9 or A ~ Z
11	Vertical start character	C	0 ~ 9 or A ~ Z

3.5.6 Grid

Field	1	2	3	4	5	6	7	8	9
Value	GRID	1	1	13	1	1.000	1.000	1	4

Field number	Output information	Type	Range
1	Header	C	[GRID]
2	Display ON/OFF	D	1 or 0
3	Snap to Grid flag	D	1 or 0
4	Color	D	
5	Highlight grid color	D	Unused
6	Horizontal pitch	F	$0.0 < x$
7	Vertical pitch	F	$0.0 < x$
8	Display grid	D	$0 < x$
9	Highlight grid	D	$0 < x$

3.5.7 Starting a sheet

Field	1	2	3	4	5	6	7	8
Value	SHT	1	1	14	0.000	0.000	416.000	288.000

Field number	Output information	Type	Range
1	Header	C	[SHT]
2	Sheet type	D	0: Schematic sheet 1: Symbol sheet
3	Sheet frame display flag	D	0: No display 1: Display
4	Sheet size display color	D	
5	Offset value of origin x	F	
6	Offset value of origin Y	F	
7	Width	F	0 < x
8	Height	F	0 < x

3.5.8 Ending a sheet

Field	1
Value	ENDSHT

Field number	Output information	Type	Range
1	Header	C	[ENDSHT]

3.5.9 Starting a property

Field	1	2	3	4
Value	PROP	0	function	1

Field number	Output information	Type	Range
1	Header	C	[PROP]
2	Auto-generate flag	D	When input with editor: 0 Auto-create: 1
3	Property name	C	
4	Output line count	D	0 < x

About design variation:

The property name for design variation is output in the following format.

partName@NTSC@Hifi

3.5.10 Ending a property

Field	1		
Value	ENDPROP		

Field number	Output information	Type	Range
1	Header	C	[ENDPROP]

3.5.11 Property viewer

Field	1	2	3	4	5	6	7	8	9	10
Value	VIEW	2	1	0	0	3	143.500	-151.500	0.000	5.000

Field	11					12				
Value	0					pinNumber				

Field number	Output information	Type	Range
1	Header	C	[VIEW]
2	ID	D	0 < x
3	Output flag	D	0: no display 1: display
4	Output mode	D	0: Property value 1: Property name=property value
5	Font	D	
6	Color	D	
7	X coordinate	F	
8	Y coordinate	F	
9	Angle	F	
10	Scale	F	0 < x

Field number	Output information	Type	Range
11	Origin position	D	0: Left lower 1: Center lower 2: Right lower 3: Left center 4: Center middle 5: Right center 6: Left upper 7: Center upper 8: Right upper
12	Property name	C	

3.5.12 Circle

Field	1	2	3	4	5	6	7	8
Value	CIRC	1	-1	-1	-1	49.000	-115.000	6.082

Field number	Output information	Type	Range
1	Header	C	[CIRC]
2	Display ON/OFF	D	1 or 0
3	Line type	D	
4	Color	D	
5	Line width	D	
6	Center coordinate X	F	
7	Center coordinate Y	F	
8	Radius r	F	$0.0 < x$

3.5.13 Starting a polyline

Field	1	2	3	4	5
Value	LINE	1	-1	-1	-1

Field number	Output information	Type	Range
1	Header	C	[LINE]
2	Display ON/OFF	D	1 or 0
3	Line type	D	
4	Color	D	
5	Line width	D	

3.5.14 Ending a polyline

Field	1		
Value	ENDLIN		

Field number	Output information	Type	Range
1	Header	C	[ENDLIN]

3.5.15 Line node

Field	1	2	3	4
Value	POINT	-	27.000	-131.000

Field number	Output information	Type	Range
1	Header	C	[POINT]
2	Arc flag	D	-: no arc N: Clockwise arc P: Counterclockwise arc
3	Node X coordinate	F	
4	Node Y coordinate	F	

3.5.16 Starting hatching

Field	1	2	3	4	5	6
Value	HAT	1	-1	-1	-1	-1

Field number	Output information	Type	Range
1	Header	C	[HAT]
2	Display flag	D	0 or 1
3	Line type	D	Unused
4	Color	D	
5	Line width	D	Unused
6	Paint type	D	

3.5.17 Ending hatching

Field	1		
Value	ENDHAT		

Field number	Output information	Type	Range
1	Header	C	[ENDHAT]

3.5.18 Hatching node

Field	1	2	3	4	5	6
Value	HATP	C	O	6.000	2.000	3.000

Field number	Output information	Type	Range
1	Header	C	[HATP]
2	Arc flag	C	N: Clockwise arc P: Counterclockwise arc C: Circle -: Others
3	Figure flag	C	O: Start of periphery S: Start of internal periphery E: End of figure
4	Node X coordinate	F	Center X coordinate for a circle
5	Node Y coordinate	F	Center Y coordinate for a circle
6	Radius of a circle	F	0.0 < x

3.5.19 Starting a text

Field	1	2	3	4	5	6	7	8	9	10
Value	TEXT	1	0	12	110.000	61.000	0.000	0	1.000	1

Field number	Output information	Type	Range
1	Header	C	[TEXT]
2	Display ON/OFF	D	1 or 0
3	Font number	D	

Field number	Output information	Type	Range
4	Color	D	
5	Origin X coordinate	F	
6	Origin Y coordinate	F	
7	Angle	F	
8	Origin position	D	0: Left lower 1: Center lower 2: Right lower 3: Left center 4: Center middle 5: Right center 6: Left upper 7: Center upper 8: Right upper
9	Scale	F	0.0 < x
10	Number of output lines	D	0 <

3.5.20 Ending a text

Field	1		
Value	ENDTEXT		

Field number	Output information	Type	Range
1	Header	C	[ENDTEXT]

3.5.21 Symbol pin information

Field	1	2	3	4	5
Value	PIN	2	5	4.000	4.000

Field number	Output information	Type	Range
1	Header	C	[PIN]
2	Pin ID	D	0 < x
3	Bit count	D	0 < x
4	Pin X coordinate	D	
5	Pin Y coordinate	C	

3.5.22 Starting a component

Field	1	2	3	4	5	6	7	8	9	10	11
Value	COMP	S	1	-1	15	1	3	5	146.000	-134.000	0.000

Field	12	13	14	15	16
Value	5.000	0	0	3	R.smb

Field number	Output information	Type	Range
1	Header	C	[COMP]
2	Symbol block flag	C	S: Symbol B: Block
3	Output flag	D	0 or 1
4	Color	D	
5	ID number	D	
6	Bit count	D	
7	Function type	D	
8	Component type	D	*
9	X coordinate	F	
10	Y coordinate	F	
11	Angle	F	
12	Scale	F	0 < x
13	Mirror	D	0 or 1
13	Content Flag	D	0 or 1
14	Path No.	D	
15	File name	D	

*Component Type

0 Figure

2 Sheet Frame

4 Parts

8 Gate

16 Block

32 Power box

64 Ground

128 Short Symbol

256 Hierarchy Connector

512 Sheet Connector

1024 Power Box

20 Part and Block

24 Gate and Block

3.5.23 Ending a component

Field	1		
Value	ENDCOMP		

Field number	Output information	Type	Range
1	Header	C	[ENDCOMP]

3.5.24 Starting a component pin

Field	1	2	3	4	5	6
Value	COMPPIN	1	1	150.000	92.000	1

Field number	Output information	Type	Range
1	Header	C	[COMPPIN]
2	Pin ID	D	
3	Bit count	D	
4	X coordinate	F	
5	Y coordinate	F	
6	Connection type	D	0: non-connection 1: connection

3.5.25 Ending a component pin

Field	1		
Value	ENDCOMPPIN		

Field number	Output information	Type	Range
1	Header	C	[ENDCOMPPIN]

3.5.26 Starting a net

Field	1	2	3
Value	NET	35	0

Field number	Output information	Type	Range
1	Header	C	[NET]
2	Net ID	D	
3	Bus flag	D	0: Signal line 1: Bus

3.5.27 Ending a net

Field	1
Value	ENDNET

Field number	Output information	Type	Range
1	Header	C	[ENDNET]

3.5.28 Starting a net segment

Field	1	2	3	4	5
Value	WIRE	1	-1	-1	-1

Field number	Output information	Type	Range
1	Header	C	[WIRE]
2	Display flag	D	0 or 1
3	Color	D	
4	Line type	D	
5	Line width	D	

3.5.29 Ending a net segment

Field	1		
Value	ENDWIRE		

Field number	Output information	Type	Range
1	Header	C	[ENDWIRE]

3.5.30 Net node

Field	1	2	3	4	5	6	7
Value	SIGP	1	62.000	104.000	-	-	S

Field number	Output information	Type	Range
1	Header	C	[SIGP]
2	Net node ID	D	0
3	X coordinate	F	
4	Y coordinate	F	
5	Ripper type upon bus connection	C	A: No angle S: With angle -: None
6	Ripper direction upon bus connection	C	R: Clockwise L: Counterclockwise -: None
7	Connection information	C	-: Unconnected S: Signal line B: Bus T: Terminal connection

3.5.31 Frame

Field	1	2	3	4	5	6	7	8	9
Value	FRAME	1	0	12	0	1	131.000	86.000	28.000

Field	10	11	12	13	14	15	16
Value	11.000	0.000	1.000	0	sjis	1	F:/Rev.6.0test/5V.ssf

Field number	Output information	Type	Range
1	Header	C	[FRAME]
2	Display ON/OFF	D	1 or 0
3	Block line type	D	
4	Color	D	-1= x <16
5	Line width	C	
6	Frame type	D	1: Sheet 2: Text
7	X coordinate	F	
8	Y coordinate	F	
9	Width	F	
10	Height	F	
11	Angle	F	
12	Scale	F	
13	Mirror flag	D	0 or 1
14	File type	C	circuit or sjis
15	Frame output flag	D	0 or 1
16	File path	C	

The text file to be referred to by the frame is limited to the file described in SJIS (shift JIS). Any text file written in other format may not be read.

3.5.32 Starting a data resource

Field	1
Value	LANDATA

Field number	Output information	Type	Range
1	Header	C	[LANDATA]

3.5.33 Ending a data resource

Field	1		
Value	ENDLANDATA		

Field number	Output information	Type	Range
1	Header	C	[ENDLANDATA]

3.5.34 Symbol path

Field	1	2	3	4	5
Value	PATH	S	2	template	\$ZDSROOT/symbLib/template

Field number	Output information	Type	Range
1	Header	C	[PATH]
2	Identification flag	C	S: Symbol B: Block L: LCDB
3	Path number	D	
4	Alias name	C	
5	Path	C	

3.5.35 Font table

Field	1	2	3	4	5	6	7
Value	FONT	1	0.800	1.000	0.050	0.200	0.000

Field	8	9	10
Value	font/eng/_sysfont.vec	font/jpn/zkfont.vec	font1

Field number	Output information	Type	Range
1	Header	C	[FONT]
2	Font number	D	
3	Character width	F	0.0 < x
4	Character height	F	0.0 < x
5	Character spacing	F	0.0 =< x
6	Line spacing	F	
7	Character line width	F	

Field number	Output information	Type	Range
8	ASCII font file	C	
9	Kanji font file	C	
10	Display name	C	

3.5.36 Line width table

Field	1	2	3
Value	LINEWIDTH	0	0.000

Field number	Output information	Type	Range
1	Header	C	[LINEWIDTH]
2	Table number	D	
3	Line width	F	

3.5.37 Line type table

Field	1	2	3	4	5	6
Value	LINETYPE	0	0.000	0.000	0.000	solid

Field number	Output information	Type	Range
1	Header	C	[LINETYPE]
2	Type	D	
3	Long line	F	
4	Space line	F	
5	Short line	F	
6	Display name	C	

3.5.38 Hatching table

Field	1	2	3	4	5	6	7	8
Value	FILL	0	0	0.000	0.000	0.000	0.000	none

Field number	Output information	Type	Range
1	Header	C	[FILL]
2	Number	D	
3	Hatching type	D	
4	Pitch 1	F	
5	Pitch 2	F	
6	Angle 1	F	
7	Angle 2	F	
8	Display name	C	

3.5.39 Default color

Field	1	2	3	4	5	6	7	8	9
Value	DEFCOLOR	9	12	7	7	12	12	12	3

Field number	Output information	Type	Range
1	Header	C	[DEFCOLOR]
2	Component cell	D	
3	Bus	D	
4	Net	D	
5	Property viewer	D	
6	Polyline	D	
7	Circle	D	
8	Text	D	
9	Frame	D	

3.5.40 Default line width

Field	1	2	3	4	5	6
Value	DEFWIDE	0	0	0	2	0

Field number	Output information	Type	Range
1	Header	C	[DEFWIDE]
2	Net	D	
3	Bus	D	
4	Polyline	D	
5	Circle	D	
6	Frame	D	

3.5.41 Default line type

Field	1	2	3	4	5	6
Value	DEFTYPE	0	0	0	2	0

Field number	Output information	Type	Range
1	Header	C	[DEFTYPE]
2	Net	D	
3	Bus	D	
4	Polyline	D	
5	Circle	D	
6	Frame	D	

3.5.42 Default hatching

Field	1	2
Value	DEFFILL	0

Field number	Output information	Type	Range
1	Header	C	[DEFFILL]
2	Default	D	

3.5.43 Default font number

Field	1	2	3
Value	DEFFONT	0	0

Field number	Output information	Type	Range
1	Header	C	[DEFFONT]
2	Text	D	
3	Property viewer	D	

3.5.44 Notation

Field	1	2	3	4	5	6	7	8
Value	NOTATION	%	%	[]	,	-	-

Field number	Output information	Type	Range
1	Header	C	[NOTATION]
2	Negative logic start character	C	
3	Negative logic end character	C	
4	Bus start character	C	
5	Bus end character	C	
6	Bit end character	C	
7	Bit range character	C	
8	Step end character	C	

3.5.45 Display parameter

Field	1	2	3	4	5
Value	DISPPAR	0.600	2.000	0.500	5

Field number	Output information	Type	Range
1	Header	C	[DISPPAR]
2	Node size	F	
3	Bus R radius	F	0.0 < x
4	Data trap radius	F	0.0 < x
5	Property name display length	D	

3.5.46 Design variation notation

Field	1	2	3	4
Value	VARIATION	0	*	reference

Field number	Output information	Type	Range
1	Header	C	[VARIATION]
2	Display flag	D	0: OFF 1: ON
3	Display text	C	
4	Target property	C	

3.5.47 No mount notation

Field	1	2	3
Value	NOMOUNT	0	noMount

Field number	Output information	Type	Range
1	Header	C	[NOMOUNT]
2	Display style	D	0: Normal 1: No display 2: Grid color 3: Dotted line
3	Alias property name	C	
4	Alias property value	C	Acceptable even if left blank

3.5.48 Hierarchy notation

Field	1	2	3	4
Value	CONTENTS	0	0	None

Field number	Output information	Type	Range
1	Header	C	[CONTENTS]
2	Hierarchy display flag	D	0: No display 1: Display
3	Hierarchical frame display flag	D	0: No display 1: Display
4	No display component type	C	

Chapter 4 System Designer ASCII Input Program

This software converts ASCII files written in System Designer standard ASCII format into the System Designer circuit data.

4.1 Startup

This software starts from the Data Converter or from a command line.

4.1.1 Startup from the Data Converter

Start the Data Converter and select the following options from the [tool] menu.

- CR5000/SystemDesigner to CR-5000/System Designer ASCII FORMAT

When the following screen appears, set the parameters as required.

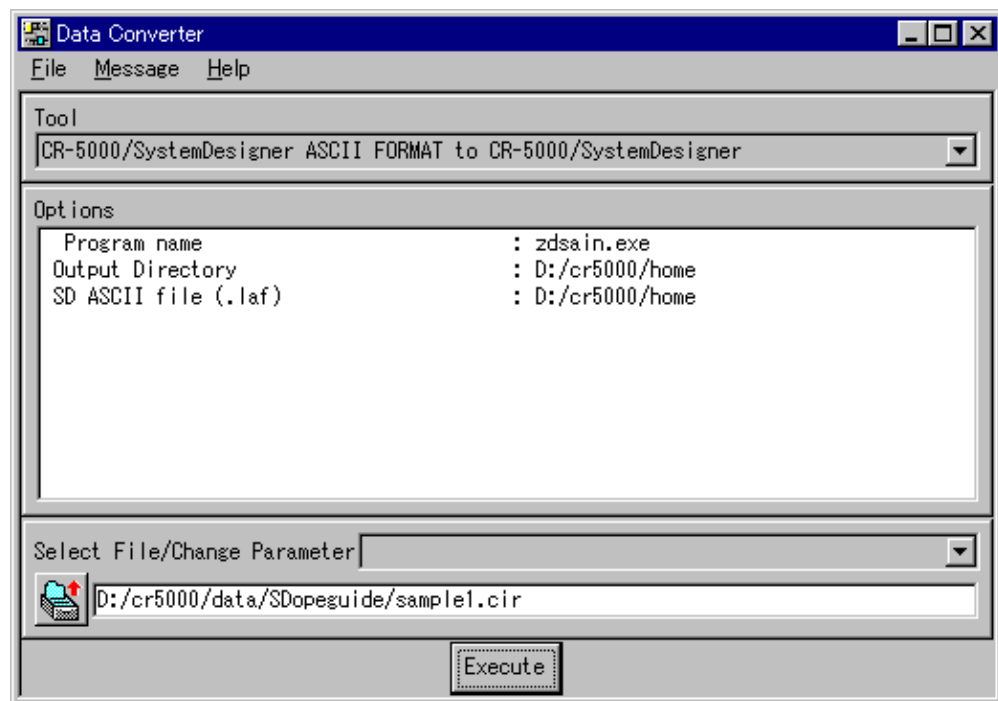


Figure 4.1 Data Converter

- Program name
Program name to be executed.
- Output Directory name
Specify the directory.
- SD ASCII file(.laf)
Specify SD ASCII format files to be input.

4.1.2 Startup from a command line

Startup from a command line proceeds with the following format.

<code>zdsain. exe [option] <SD ASCII file name></code>
--

SD ASCII file name

Specifies SD ASCII file (.laf).

Option

-o Specification of the output file.

Specify the directory name.

4.2 Output

Output files are created in the directory specified with -o option.

It is the MUST to specify the output directory.

If ASCII format data is a symbol;

Create a symbol with extension ".smb" attached to the file name specified in LIB line within the ASCII format.

If ASCII format data is a schematic sheet;

Create "output directory / xxx.cir/xxx .sht" based on the file name and sheet number specified in CIR line within the ASCII format.

Destination directory of message files

The message files are created in the directory containing the SD ASCII file (.laf) specified in the SD ASCII file name.

Error message: zdsain.err

Warning message: zdsain.wrn

Chapter 5 Error and warning messages

Failed to open data resource file xxx.

Cause: Data resource file (landata.rsc) does not exist or cannot be referred to.

Corrective action: Refer to the message and check if the file exists in the path or the file can be referred to.

Failed to open environment resource file xxx.

Cause: Data resource file (lanenv.rsc) does not exist or cannot be referred to.

Corrective action: Refer to the message and check if the file exists in the path or the file can be referred to.

Failed to open result output file xxx.

Corrective action: Check if the permission to write to the output directory is granted.

Failed to read net segment data.

Failed to read net node data.

Failed to read net data.

Failed to read circle data.

Failed to read text data.

Failed to read line data.

Failed to read line node data.

Failed to read symbol pin data.

Failed to read component pins.

Failed to read hatching data.

Failed to read hatching node data.

Failed to read components.

Failed to read a frame data.

Cause: The circuit data of the System Designer may be abnormal.

Failed to open error/warning file.

Cause: The output directory of error/warning file does not exist or it cannot be written to.

The first line is not LIB nor CIR.

Cause: The first line of the ASCII file does not begin with LIB or CIR.

Corrective action: Always begin the line with LIB or CIR.

Failed to read file xxx.

Cause: No ASCII file exists or it cannot be read.

Description is not correct.

Cause: Nonexistent header is used, or the order of headers is incorrect.

Corrective action: Confirm the ASCII file and correct it.

Failed to create the circuit directory.

Cause: The output directory does not exist or writing to the directory is impossible.

line:x Description of ZONE line is incorrect.

line:x Description of GRID line is incorrect.

line:x Failed to write sheet data.

line:x Failed to write property.

line:x Failed to write property viewer.

line:x Failed to write text.

line:x Failed to write line.

line:x Failed to write hatching.

line:x Failed to write circle.

line:x Failed to write frame.

line:x Failed to write symbol pin.

line:x Failed to write component pin.

line:x Failed to write component.

line:x Failed to write net.

line:x Description of WIRE line is incorrect.

line:x Description of SIGP line is incorrect.

line:x Failed to write on line:x data resource.

Cause: Failed to recover from ASCII file data to the circuit data.

Corrective action: Confirm the description of the ASCII file.

line:x Two or more xxx lines are described.

Cause: There are two or more descriptions of ZONE, GRID and SHT.

Corrective action: If two or more descriptions exist, leave only one and delete the others.

line:x xxx line is missing.

Cause: The end header such as ENDTEXT or ENDWIRE is missing.

Corrective action: Write the end header.

line:x file:x the value is out of range.

Cause: The specified field is out of range.

Corrective action: Fill the field with the entry within the specified range.

line:x the number field is incorrect.

Cause: The number of fields for the header is insufficient.

Corrective action: Confirm the fields and correct the number.

Characters other than Shift-JIS code are included.

Corrective action: Only Shift-JIS code can be read in System Designer standard ASCII input mode. Convert the ASCII file into Shift-JIS code and retry.

line: component pin is missing.

Cause: Component pin ID written in the ASCII file does not exist in the corresponding component.

Failed to identify the component pin for the connection terminal.

Cause: Failed to identify the connection because no component exists in the coordinate of the net node, or there are two or more component pins.

Failed to connect to the bus.

Cause: No bus data exists in the coordinate of the connection side.

Failed to identify the connection net node.

Cause: No net node exists in the coordinate of the connection side.