

Appendix E

Database Definitions

The relevant fields in each of the AutoMax Executive databases are described here. Any fields not identified here are reserved for future use and should be left unused. All of the following database files are intended as read only.

Database: \$SYSTEM.DBF

FIELD	TYPE	DESCRIPTION
ID	CHARACTER	The name of the system
DESC	CHARACTER	The description of this system
ENGINEER	CHARACTER	The user responsible for this system
CUSTOMER	CHARACTER	The end user of this system
SYSTEM_VER	CHARACTER	1 for V3.3 and later, otherwise 0.

Database: \$SECT.DBF

FIELD	TYPE	DESCRIPTION
ID	CHARACTER	The name of the section
DESC	CHARACTER	The description of this section
ENGINEER	CHARACTER	The user responsible for this section

Database: \$RACK.DBF

FIELD	TYPE	DESCRIPTION
ID	CHARACTER	The name of the rack
SECT_ID	CHARACTER	The name of the section containing this rack
RACK_PART	NUMERIC	The rack part code from the rack permanent table
LOCATION	CHARACTER	The physical location of this rack
DESC	CHARACTER	The description of this rack
ENGINEER	CHARACTER	The user responsible for this rack

Database: \$IORACK.DBF

FIELD	TYPE	DESCRIPTION
MAST_SLOT	NUMERIC	Slot in the master rack which contains the remote I/O card to which this rack is connected (00-15)
REM_DROP	NUMERIC	This rack's drop on the remote I/O network (1-7)
PORT	NUMERIC	This rack's port on remote head, if applicable (0-3)

LOC_PORT	NUMERIC	This rack's port on local head, if applicable (0-3)
LEVEL	NUMERIC	The code identifying this rack's location in the remote I/O topology (see the diagram below)
RACK_PART	NUMERIC	The rack part code from the rack permanent table
LOCATION	CHARACTER	The physical location of this rack
DESC	CHARACTER	The description of this rack
ENGINEER	CHARACTER	The user responsible for this rack

Database: \$CARD.DBF

<u>FIELD</u>	<u>TYPE</u>	<u>DESCRIPTION</u>
MAST_SLOT	NUMERIC	The slot in the master rack which contains this card or which contains the remote I/O card which is the remote I/O network master (00-15)
REM_DROP	NUMERIC	If this card is in a remote rack, this is the drop number for that remote rack (1-7); otherwise, it is 0
PORT	NUMERIC	Port on remote head, if applicable (0-3)
LOC_PORT	NUMERIC	Port on local head, if applicable (0-3)
LEVEL	NUMERIC	The code identifying this card's location in the remote I/O topology (see the diagram below)
SLOT	NUMERIC	The slot number containing this card
CARD_PART	NUMERIC	The card part code from the card permanent table
NETWORK	CHARACTER	Network identifier; for network cards only (A-Z)
NET_DEPTH	NUMERIC	Network depth; for network cards only (1-55)
NET_DROP	NUMERIC	Drop number; for network and gateway cards only
DESC	CHARACTER	The description of this card
ENGINEER	CHARACTER	The user responsible for this card
WIRE_NOTE1	NUMERIC	For AutoMax Processors (M/N 57C430A, 57C431, and 57C435), the high order byte of the AutoMax Processor tick rate (in microseconds) For the UDC module (B/M 57552 and B/M 57652), the drive type for drive A (see Parameter Record Types table for values)

For the Shark Scanner module (M/N 57C554), the value is one (1) for an all-digital rack or zero (0) for a mixed rack.

WIRE_NOTE2 NUMERIC

For AutoMax Processors (M/N 57C430A, 57C431, and 57C435), the low order byte of the AutoMax Processor tick rate (in microseconds)

For the UDC module (B/M 57552 and B/M 57652), the drive type for drive B (see Parameter Record Types table for values)

Note: Memory variables are stored in slot 99.

Database: \$SWVAR.DBF and \$NET.DBF

<u>FIELD</u>	<u>TYPE</u>	<u>DESCRIPTION</u>
MAST_SLOT	NUMERIC	The slot in the master rack which contains this card or which contains the remote I/O card which is the remote I/O network master (00-15)
REM_DROP	NUMERIC	If this card is in a remote rack, this is the drop number for that remote rack (1-7); otherwise, it is 0
SLOT	NUMERIC	The slot in which the variable resides (00-15)
REGISTER	NUMERIC	The multibus register number (0-65535)
BIT	NUMERIC	The bit number within the multibus register for boolean variables (0-15)
LVAR_NAME	CHARACTER	The variable without type specifier or array dimensions; for network variables, this is the local variable name
GVAR_NAME	CHARACTER	The variable without type specifier or array dimensions; used for the network-wide name for network variables only
NETWORK	CHARACTER	Network identifier; used for network variables only (A-Z)
DESC	CHARACTER	The description of this variable
ARRAY_DIM1	NUMERIC	First dimension; used for memory variables only
ARRAY_DIM2	NUMERIC	Second dimension; used for memory variables only
ARRAY_DIM3	NUMERIC	Third dimension; used for memory variables only
ARRAY_DIM4	NUMERIC	Fourth dimension; used for memory variables
DATA_TYPE	NUMERIC	The type of this variable: 8 Floating point 16 ! Double integer

32 % Integer
 64 @ Boolean
 128 \$ String

CARD_TYPE NUMERIC

The content of this field depends on the data type. For string variables, it contains the string length (0-255). Zero (0) represents the default string length of 32 characters. This field is not used for card type.

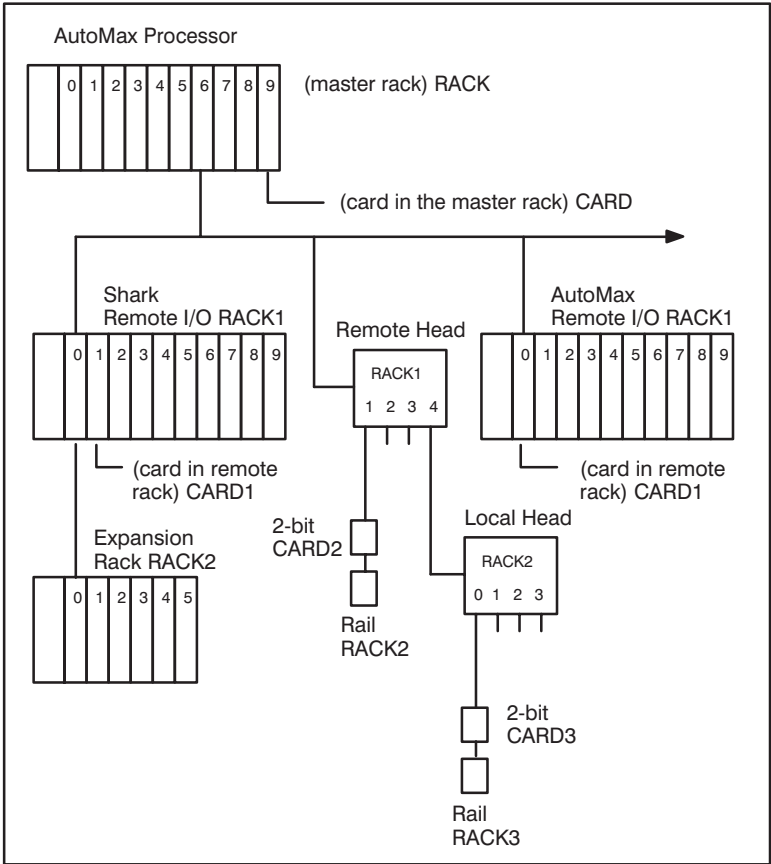
DEF_TYPE NUMERIC

This field is used to designate whether a COMMON memory variable is volatile (2) or non-volatile (3). For all other variables, this field will be zero (0).

Database: \$TASKS.DBF

<u>FIELD</u>	<u>TYPE</u>	<u>DESCRIPTION</u>
NAME	CHARACTER	The task name without extension, drive, or directory; unique within this rack
TYPE	CHARACTER	The task type: PC, BLK, BAS, or INC
SLOT	NUMERIC	The slot number of the Processor in which this task will be loaded (0-4, 0-15 for UDC tasks)
PRIORITY	NUMERIC	The priority of this task (4-11)
DESC	CHARACTER	The description of this task
ENGINEER	CHARACTER	The user responsible for this task
CRITICAL	BOOLEAN	T if the task is critical
RECONSTR	BOOLEAN	T if the task should be compiled so that it can be reconstructed from object code
UTILITY	BOOLEAN	T if the task is a utility task

LEVEL CODES



<u>Level</u>	<u>Code stored in databases</u>
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SYSTEM	1
SECTION	2
RACK	3
CARD	4
RACK1	5
CARD1	6
RACK2	7
CARD2	8
RACK3	9
CARD3	10

The following two database definitions detail the fields in the permanent tables. These databases are intended for read-only use. They are primarily used to translate the part type codes stored in other databases to Reliance part numbers.

Database: \$PTCARD.DBF

<u>FIELD</u>	<u>TYPE</u>	<u>DESCRIPTION</u>
PART_TYPE	NUMERIC	Card part code
PART_NUM	CHARACTER	Reliance part number
FAMILY	NUMERIC	Family code
GROUP	NUMERIC	Group code
ABBR	CHARACTER	Abbreviation for the card
DESC	CHARACTER	Description
BITMAP_ID	NUMERIC	Bitmap ID code

Database: \$PTCARD.DBF

<u>FIELD</u>	<u>TYPE</u>	<u>DESCRIPTION</u>
PART_TYPE	NUMERIC	Rack part code
PART_NUM	CHARACTER	Reliance part number
DESC	CHARACTER	Description

Database: \$PARAM.DBF

<u>FIELD</u>	<u>TYPE</u>	<u>DESCRIPTION</u>
MAST_SLOT	NUMERIC	Master rack slot (0-15)
REM_DROP	NUMERIC	RIO drop number (0-7)
PORT	NUMERIC	Remote port (0-3)
LOC_PORT	NUMERIC	Local port (0-3)
LEVEL	NUMERIC	Rack level code (see table below)
SLOT	NUMERIC	Target card slot (0-15)
SUB_ID	CHARACTER	Sub ID (A-Z) needed when there is more than 1 parameter record per card
TYPE	NUMERIC	Parameter record type (see table below)
VERSION	NUMERIC	Format version for the given type (0-255)
P01-P50	NUMERIC	Unsigned word parameters 1-50 (0-65535) (see table below)

Rack Level Codes

LEVEL	VALUE	DESCRIPTION
RACK	3	For cards in the master AutoMax rack
RACK1	5	For cards in the AutoMax remote I/O rack and PMI rack
RACK2	7	For cards in Shark expansion racks
RACK3	9	For cards in I/O rails

Parameter Record Types

PARAMETER RECORD TYPE	VALUE
UDC unused	1
UDC SD3000 6-pulse	2
UDC SD3000 12-pulse	3
UDC SD3000 12-pulse auxiliary	4
UDC SF3000 field regulator	5
UDC SA3000 vector	6
UDC SA500 vector	7
UDC SA500 brushless	8
UDC VZ3000 Vector	9
UDC VZ3000 Vector	10
UDC VZ3000	11
UDC VZ3000	12
UDC SB3000	13
UDC SA3000 Constant Power	14
UDC SA3000 Volts/Hertz	17
UDC SA3100 Constant Power	22
UDC SA3100 Volts/Hertz	23