

Paragon Scripting Language™

User Manual

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Introduction

Paragon products support two modes of execution: interactive and batch processing. The interactive mode has a graphical interface and requires the user to carry out operations. While working in the batch mode it is possible to control the operation by using a file of script commands. A script file is a textual file written in the Paragon Scripting Language. It contains a set of operations to execute with appropriate settings applied to these operations.

Paragon Scripting Language enables to automate the disk/partition backup routines or cloning procedures of almost any complexity. Besides support of all operations available in the interactive mode, PSL provides some additional features, such as conditional execution, subroutines, repeatable iterations, disk/partition properties analysis, errors management, etc.

Explanation of Grammar

Let's use as an example for description of Paragon Scripting language the Backus Normal Form (BNF). BNF uses the following designations:

<language> ::= {<command>} - means that a condition language is a set of nonnegative numbers of commands, since the sign {} defines the order of nonnegative numbers of arguments.

<command> ::= <simple_command> | <advanced_command> - means that a condition command may be: **simple_command** or **advanced_command**.

<simple_command> ::= [<prefix>] <infix> <postfix> - means that a condition **simple_command** consists of three constituents: prefix, infix and postfix. A condition prefix may either be present or not in a **simple_command**.

As an example let's write description of identifier in the C language by using BNF:

```
<identifier> ::= <letter_or_underline> {<letter_or_underline> | <digit>}
```

```
<letter_or_underline> ::= a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t | u | v | w | x | y | z | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | _
```

```
<digit> ::= 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0
```

It means that the first symbol in identifier is a **letter_or_underline**, and the others may be **letter_or_underline** or digit.

Reserved words are underlined. Reserved words are case insensitive. Between two conditions the user can place any number of spaces, tabs, new lines and even comments by using */** for an open comment and **/* for a close comment. The user can also comment on any string from *//* symbol till the end of line. Condition **<any symbol>** allows the user to write down any symbol.

PSL Grammar

As was already mentioned, PSL program is a textual file, which consists of the sequence of PSL-commands and comments. A comment may be positioned in the same line with the command, or it can be inserted as a comment block, which takes one or several strings, following each other.

Each PSL-command begins from a new line and can be preceded by a label. Structurally PSL-program consists of the main program and its procedures. The beginning of the program coincides with the beginning of the file, and its end – with the end of the file accordingly. There are no special operators defining the beginning and the end of the main program.

Procedures are placed inside of the main program, and, therefore, each procedure must be preceded by a special operator which jumps to another position of the main program (i.e. steps over the procedure). The beginning of each procedure is identified by a label, and the end is identified by the [endcall](#) keyword. This is a command, which returns the program execution to the point from which this procedure was called.

```
<language> ::= <command> {<command>}
```

```
<command> ::= [<label>] <Paragon partition manager command> | <Paragon drive backup command> | <special command> | <global command> | <psr_command> | <bm command>
```

```
<global command> ::= <select disk> | <select copy disk> | <select partition> | <select freespace> | <select copy partition> | <select copy freespace> | <unselect all> | <apply> | <undo> | <settings block> | <pause> | <bluescrn> | <cls>
```

```
<Paragon partition manager command> ::= <create partition> | <format partition> | <sets flag for partition> | <resize partition> | <redistribute partition> | <modify partition> | <delete partition> | <wipe> | <clear free space> | <protect> | <move partition> | <copy partition> | <copy partition to zip archive> | <copy disk> | <copy disk selective> | <select partition for selective copy disk> | <mount or umount> | <list> | <clear disk> | <merge partitions> | <split partition> | <defragment> | <update mbr> | <set disk layout> | <online disk> | <throttle disk>
```

|<convert to basic> | <set mbr signature> | <set slots> | <compact mft> | <check fs> | <fix fs> | <dump fs> | <undelete partition> | <align partition> | <make increment> | <make cdp increment>

<Paragon drive backup command> ::= <operations with hard disk> | <operation with partition> | <operations with MBR> | <operations with first track> | <operations with partitions layout> | <select store file> | <select base archive> | [[maybe select image](#)] [INTEGRITY](#) [[<pwd or none>](#)] | <store complex archive> | <store files archive> | <store index file>

<special command> ::= <goto> | <cycle> | <condition> | <print> | <ask> | <debug> | <shell execute> | <default answers> | <reboot> | <set variable> | <sterror> | <endcall> | <exit_prog> | <set value> | <set string> | <file operations> | <stack operations> | <xfind> | <shutdown> | <silent> | <messagebox> | <eject> | <correct boot.ini file> | <correct bcd file> | <correct boot record> | <correct gpt efi boot> | <correct gpt efi nvram> | <add gpt efi boot menu entry> | <adjust os> | <convert os physical-to-virtual> | <test surface> | <create virtual drive> | <create virtual drive diff> | <merge virtual drive diffs> | <connect virtual drive> | <disconnect virtual drive> | <connect virtual drives> | <delete virtual drive> | <copy virtual drive> | <bootfix virtual drive> | <create virtual machine configuration> | <select virtual drive store item> | <store virtual drive> | <store virtual drive increment> | <select virtual drive restore target> | <restore virtual drive> | <check virtual drive integrity> | <mount virtual drive partition> | <umount virtual drive partition> | <print virtual drive archive> | <import ldm group> | <manage disk sectors> | <copy disk test> | <break>

<label> ::= <name> :

<name> ::= <letter_or_underline> {<letter_or_underline> | <digit>}

<pwd or none> ::= [PWD](#) = <string>

<string> ::=

“{<any symbol>}” | <string> + <string> | (<string>) |
[STRINGDEC](#) (<size operand>) |
[STRINGHEX](#) (<size operand>) |
[STRING](#) (<name>) |
[STRINGPARAMETER](#) (<name>) |
[STRINGDAYOFWEEK](#) (<size operand>) |
[STRINGMONTH](#) (<size operand>) |
[STRINGTIME](#) (<size operand>) |
[SUBSTRING](#) (<string>, <size operand>, <size operand>) |
[CODETOCHAR](#) (<size operand>) |
[USERSTRING](#) |
[POPSTR](#) |
[DIRELEMENT](#) (<filename*>, <size operand>) |
[GETENV](#) (<string>) |
[LABEL](#) (<disk indicator>, <partition indicator>) |
[LETTER](#) (<disk indicator>, <partition indicator>) |
[GPTTYPE](#) (<disk indicator>, <partition indicator>) |
[GPTID](#) (<disk indicator>, <partition indicator>) |
[VOLUMEID](#) (<disk indicator>, <partition indicator>) |
[VOLUMEGROUPNAME](#) (<disk indicator>, <partition indicator>) |
[VOLUMENAME](#) (<disk indicator>, <partition indicator>) |
[SUBSOURCEGUID](#) (<filename*>, <string>, <size operand>) |

[DISKMODEL](#) (<disk indicator>)|
[DISKID](#) (<disk indicator>)

<size operand> ::=

(<size operand>)| - <size operand> | <size operand> <arithmetic> <size operand> |
 <number> |

[SIZEDISK](#) (<disk indicator>)|

[SIZEPARTITION](#) (<disk indicator>, <partition indicator>)|

[SIZEFREE](#) (<disk indicator>, <partition indicator>)|

[SIZEUSED](#) (<disk indicator>, <partition indicator>)|

[CURDISKNUMBER](#) |

[DISKNUM](#) (<disk indicator>)|

[CURPARTITIONNUMBER](#) | <value> | <parameter> |

[PARTITIONID](#) (<disk indicator>, <partition indicator>)|

[PARTTYPE](#) (<disk indicator>, <partition indicator>)|

[STARTSECTOR](#) (<disk indicator>, <partition indicator>)|

[ENDSECTOR](#) (<disk indicator>, <partition indicator>)|

[BOOTSIZE](#) (<disk indicator>, <partition indicator>)|

[ROOTSIZE](#) (<disk indicator>, <partition indicator>)|

[CLUSTERSIZE](#) (<disk indicator>, <partition indicator>)|

[FATNUMBER](#) (<disk indicator>, <partition indicator>)|

[STRINGLENGTH](#) (<string>)|

[CHARTOCODE](#) (<string>)|

[FILESIZE](#) (<filename*>)|

[FILECREATETIME](#) (<filename*>)|

[FILEMODIFYTIME](#) (<filename*>)|

[FILEACCESSTIME](#) (<filename*>)|

[DIRCONTENTS](#) (<filename*>)|

[SUBQUANTITY](#) (<filename*>, <string>)|

[SOURCESIZE](#) (<filename*>, <string>)|

[SUBSOURCESIZE](#) (<filename*>, <string>, <size operand>)|

[SUBSOURCESTART](#) (<filename*>, <string>, <size operand>)|

[SUBSOURCEDISKNUMBER](#) (<filename*>, <string>, <size operand>)|

[DAYOFMONTH](#) (<size operand>)|

[HOUR](#) (<size operand>)|

[DAYOFYEAR](#) (<size operand>)|

[MONTH](#) (<size operand>)|

[MINUTE](#) (<size operand>)|

[SECOND](#) (<size operand>)|

[DAYOFWEEK](#) (<size operand>)|

[YEAR](#) (<size operand>)|

[NOWTIME](#) |

[POPNUM](#) |

[GETMBRSIGNATURE](#) (<disk indicator>)|

[WDALIGN](#) (<disk indicator>)|

<messagebox>

<select disk> ::= [SELECT DRIVE](#) <disk indicator> | [SELECT DISK](#) <disk indicator>

<select copy disk> ::= [SELECT COPY DRIVE](#) <disk indicator> | [SELECT COPY DISK](#) <disk indicator>

<select partition> ::=

[SELECT PARTITION](#) <size operand> |
[SELECT PARTITION](#) <letter> |
[SELECT PARTITION](#) <string> |
[SELECT PARTITION FIRST](#) |
[SELECT PARTITION LAST](#) |
[SELECT PARTITION EXTENDED](#) |
[SELECT PARTITION LARGEST](#) |
[SELECT PARTITION SMALLEST](#) |
[SELECT PARTITION NEXT](#) |
[SELECT PARTITION PREVIOUS](#) |
[SELECT PARTITION OFFSET](#) <size operand> |
[SELECT PARTITION VARIABLE](#) <string> |
[SELECT PARTITION PRIMARY](#) <size operand> |
[SELECT PARTITION LOGICAL](#) <size operand> |
[SELECT PARTITION ADDRESS](#) <size operand> |
[SELECT VOLUME](#) <string> **GROUP** <string> |
[SELECT VOLUME](#) <string>

<select freespace> ::=

[SELECT FREESPACE FIRST](#) |
[SELECT FREESPACE LAST](#) |
[SELECT FREESPACE LARGEST](#) |
[SELECT FREESPACE SMALLEST](#) |
[SELECT FREESPACE](#) <size operand> |
[SELECT FREESPACE OFFSET](#) <size operand> |
[SELECT FREESPACE PRIMARY](#) <size operand> |
[SELECT FREESPACE LOGICAL](#) <size operand> |
[SELECT FREESPACE ADDRESS](#) <size operand>

<select copy partition> ::=

[SELECT COPY PARTITION](#) <size operand> |
[SELECT COPY PARTITION](#) <letter> |
[SELECT COPY PARTITION](#) <string> |
[SELECT COPY PARTITION FIRST](#) |
[SELECT COPY PARTITION LAST](#) |
[SELECT COPY PARTITION EXTENDED](#) |
[SELECT COPY PARTITION LARGEST](#) |
[SELECT COPY PARTITION SMALLEST](#) |
[SELECT COPY PARTITION NEXT](#) |
[SELECT COPY PARTITION PREVIOUS](#) |
[SELECT COPY PARTITION OFFSET](#) <size operand> |
[SELECT COPY PARTITION VARIABLE](#) <string> |
[SELECT COPY PARTITION PRIMARY](#) <size operand> |
[SELECT COPY PARTITION LOGICAL](#) <size operand> |
[SELECT COPY PARTITION ADDRESS](#) <size operand>

<select copy freespace> ::=
[SELECT COPY FREESPACE FIRST](#) |
[SELECT COPY FREESPACE LAST](#) |
[SELECT COPY FREESPACE LARGEST](#) |
[SELECT COPY FREESPACE SMALLEST](#) |
[SELECT COPY FREESPACE](#) <size operand> |
[SELECT COPY FREESPACE OFFSET](#) <size operand> |
[SELECT COPY FREESPACE PRIMARY](#) <size operand> |
[SELECT COPY FREESPACE LOGICAL](#) <size operand> |
[SELECT COPY FREESPACE ADDRESS](#) <size operand>

<unselect all> ::= [UNSELECT ALL](#)

<bluescrn> ::= BLUESCRN INSTALL /BLUESCRN=<string> /SCRIPT=<string> /REBOOT | BLUESCRN UNINSTALL

<cls> ::= [SCRIPTS_CLS](#)

<xfind> ::= [XFIND OPTIONS](#) <xfind options> {<xfind options>} [ENDOPTIONS BEGIN](#) {<command>} [ENDXFIND](#)

<xfind options> ::= [RESULT](#) = <name> | [RECURSIVE](#) = [OFF](#) | [RECURSIVE](#) = [DIRECTORIES FIRST](#) | [RECURSIVE](#) = [DIRECTORIES LAST](#) | [RECURSIVE](#) = [FILES FIRST](#) | [RECURSIVE](#) = [FILES LAST](#) | [RECURSIVE LEVEL](#) = <size operand> | [DIRECTORIES](#) = <protect disk switch> | [FILES](#) = <protect disk switch> | [MASK](#) = <string> | [START](#) = <filename*> | [SEARCH](#) = [DEEP](#) | [SEARCH](#) = [WIDE](#)

<break> ::= [BREAK](#)

<silent> ::= [SILENT](#) <protect disk switch>

<shutdown> ::= [SHUTDOWN](#)

<eject> ::= [EJECT](#) (<string>)

<correct boot.ini file> ::= [FIX_BOOTINI](#)

<correct bcd file> ::= [FIX_BCD](#)

<correct boot record> ::= [FIX_BOOT](#)

<correct gpt efi boot> ::= [FIX_GPTEFIBOOT](#)

<correct gpt efi nvram> ::= [FIX_GPTEFINVRAM](#)

<add gpt efi boot menu entry> ::= [FIX_GPTEFINVRAM_ADDEFIBOOT](#)

<adjust os> ::= [FIX_AR](#)

<test surface> ::= [SURFACETEST](#)

<convert os physical-to-virtual> ::= [VMOPTIONS <vm options> {<vm options>}] FIX_P2V /FORMAT = <string> [/DRIVER = <string>]

<vm options> ::= VM_PROCESSOR = <size operand> | VM_MEMORY = <size operand> | VM_IDE = <size operand> | VM_SCSI = <size operand> | VM_SATA = <size operand> | VM_NETWORK = <size operand> | VM_FLOPPY = <size operand> | VM_HARDDISK = <size operand> | VM_CDROM = <size operand>

<create virtual drive> ::= [VD_CREATE_OPTIONS <vd create options> {<vd create options>}] VD_CREATE /PATH = <string> /SIZE = <size operand> /VENDOR = <string> [/ADAPTER = <string>] [/SUBTYPE = <string>] [/ATTRIBUTES = <size operand>] [/FLAGS = <size operand>] [/PWD = <string>]

<vd create options> ::= <archive label> | <split> | <compression> | <password>

<create virtual drive diff> ::= VD_CREATE_DIFF /PATH = <string> /BASE = <string> [/FLAGS = <size operand>] [/PWD = <string>]

<merge virtual drive diffs> ::= VD_MERGE_DIFFS /PATH = <string> /LEVEL = <size operand> [/DELETE] [/PWD = <string>]

<connect virtual drive> ::= VD_CONNECT /PATH = <string> [/READONLY] [/FLAT] [/PWD = <string>]

<disconnect virtual drive> ::= VD_DISCONNECT

<connect virtual drives> ::= {<select store file>} VD_CONNECT_DRIVES [/READONLY] [/FLAT] [/PWD = <string>]

<delete virtual drive> ::= VD_DELETE /PATH = <string> [/FLAT] [/PWD = <string>]

<copy virtual drive> ::= VD_COPY /SOURCE_PATH = <string> /DESTINATION_PATH = <string> [/FLAGS = <size operand>]

<bootfix virtual drive> ::= VD_BOOTFIX /PATH = <string> [/INDEX = <string>]

<vd create config options> ::= VD_DEVICE = <string>

<create virtual machine configuration> ::= [VD_CREATE_CONFIG_OPTIONS <vd create config options> {<vd create config options>}] VD_CREATE_CONFIG /FORMAT = <string> /VERSION = <string> /CONFIG = <string> /NAME = <string> /OS = <string> /PATH = <string>

<vd store item options> ::= <exclude parameter> | <exclude writer parameter>

<vd item type> ::= DISK | PARTITION

<select virtual drive store item> ::= [VD_STORE_ITEM_OPTIONS <vd store item options> {<vd store item options>}] VD_STORE_ITEM <vd item type> [/EXCLUDE]

<vd raw> ::= ASK | PROCESS | SKIP

<vd compression> ::= NONE | FAST | NORMAL | BEST

<vd store options> ::= <process priority> | <vd raw> | <archive label> | <split> | <vd compression> | <password> | <exclude parameter> | <exclude writer parameter>

<store virtual drive> ::= [VD_STORE_OPTIONS <vd store options> {<vd store options>}] VD_STORE /PATH = <string> /NAME = <string> [/VENDOR = <string>] [/ADAPTER = <string>] [/SUBTYPE = <string>]

<vd store increment options> ::= <process priority> | <diff method> | <archive label> | <password> | <exclude parameter> | <exclude writer parameter>

<store virtual drive increment> ::= <select base archive> [<vd archive item> {<vd archive item>}] [VD_STORE_INCREMENT_OPTIONS <vd store increment options> {<vd store increment options>}] VD_STORE_INCREMENT

<vd restore size> ::= <size operand> | MAX

<select virtual drive restore target> ::= VD_RESTORE_TARGET <vd item type> [/POSITION = <align>] [/SIZE = <vd restore size>] [NO_FREESPACES]

<vd archive item> ::=
VD_ARCHIVE_ITEM DISK <size operand> |
VD_ARCHIVE_ITEM DISK <size operand> PARTITION <size operand> [/EXCLUDE] |
VD_ARCHIVE_ITEM VOLUME <string> GROUP <string> [/EXCLUDE] |
VD_ARCHIVE_ITEM VOLUME <string> [/EXCLUDE]

<vd restore options> ::= <process priority> | <vd raw> | <password>

<vd restore scenario> ::= DISKS | ASIS | PARTITION

<restore virtual drive> ::= <select store file> [<vd archive item> {<vd archive item>}] [VD_RESTORE_OPTIONS <vd restore options> {<vd restore options>}] VD_RESTORE <vd restore scenario>

<check virtual drive integrity> ::= [VD_RESTORE_OPTIONS <vd restore options> {<vd restore options>}] VD_RESTORE CHECK

<mount virtual drive partition option> ::= “<letter>” | <string>

<mount virtual drive partition> ::= [VD_RESTORE_OPTIONS <vd restore options> {<vd restore options>}] VD_RESTORE MOUNT <mount virtual drive partition option> [/READONLY]

<umount virtual drive partition> ::= [VD_RESTORE_OPTIONS <vd restore options> {<vd restore options>}] VD_RESTORE UMOUNT [/FORCE]

<vd list> ::= LIST | LIST VOLUMES

<print virtual drive archive> ::= VD_RESTORE <vd list>

<import ldm group> ::= [IMPORT LDM GROUP](#)

<manage disk sectors> ::=

[LOAD DISK SECTORS](#) /[STARTSECTOR](#) = <size operand> /[SIZE](#) = <size operand> /[PATH](#) = <string> |
[LOAD PARTITION SECTORS](#) /[STARTSECTOR](#) = <size operand> /[SIZE](#) = <size operand> /[PATH](#) = <string> |
[SAVE DISK SECTORS](#) /[STARTSECTOR](#) = <size operand> /[SIZE](#) = <size operand> /[PATH](#) = <string> |
[SAVE PARTITION SECTORS](#) /[STARTSECTOR](#) = <size operand> /[SIZE](#) = <size operand> /[PATH](#) = <string>

<stack operations> ::= [PUSHSTR](#) (<string>) | [PUSHNUM](#) (<size operand>)

<file operations> ::=

[FILEDELETE](#) (<filename*>) |
[FILEMAKEDIR](#) (<filename*>) |
[FILEDELETEDIR](#) (<filename*>) |
[FILECOPYDIR](#) (<filename*>, <filename*>) |
[FILECOPY](#) (<filename*>, <filename*>) |
[FILEMERGE](#) (<filename*>, <filename*>) |
[FILEREName](#) (<filename*>, <filename*>)

<set variable> ::= [SET VARIABLE](#) <string>

<set value> ::= [SET VALUE](#) <name> = <size operand>

<set string> ::= [SET STRING](#) <name> = <string>

<operations with hard disk> ::= <store hard disk> | <restore hard disk>

<store hard disk> ::= <select all partitions> [[OPTIONS](#) <store options> {<store options>}] <store>

</> ::= / | \

<linux name> ::= [hda](#) | [hdb](#) | [hdc](#) | [hdd](#) | [sda](#) | [sdb](#) | [sdc](#) | [sdd](#)

<select all partitions> ::= [SELECT PARTITIONS ALL](#)

<select store file> ::= [IMG](#) = <filename*>

<select base archive> ::= [BASE](#) = <filename*>

<letter> ::= a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t | u | v | w | x | y | z | A | B | C | D | E | F | G |
H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z

<number> ::= [-]<digit> {<digit>} | [-]<hex mask>

<nonzero digit> ::= 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

<store options> ::= <password> | <compression> | <process priority> | <split> | <sector by sector> |
[CHECKOVERWRITE](#) | [NOARCFILES](#) | [USEVSS](#) | <index file path> | [NOSIGNATURE](#) | <autonames> |

<archive label> | <base archive password> | <estimation> | [HOTBACKUP](#) <hotbackup parameters> | [TEMPDRIVE](#) <letter> | [AUTOEJECT](#) | [FILES_AUTOINCREMENT](#) | <exclude parameter> | <exclude writer parameter> | <ftp user> | <ftp password> | <sftp private key> | <sftp public key> | <sftp passphrase> | <smb user> | <smb password>

<estimation> ::= [ESTIMATION](#) (<size operand>, <string>)

<base archive password> ::= [BASE_PWD](#) = <string>

<autonames> ::= [AUTONAMES](#)

<archive label> ::= [LABEL](#) = <string>

<sector by sector> ::= [CAS](#)

<password> ::= [PWD](#) = <string>

<split> ::= [MFS](#) = <size operand>

<compression> ::= [CMP](#) = <size operand>

<priority> ::= HIGH | ABOVENORMAL | NORMAL | BELOWNORMAL | LOW

<process priority> ::= [PRIORITY](#) = <priority>

<diff method> ::= [DIFFMETHOD](#) <sectordiffmethod parameters>

<compression level> ::= <digit>

<bad sector checking> ::= [CBS](#)

<verify written> ::= [RAV](#) = <size operand>

<allow copy over basic partition> ::= [OVERBASIC](#)

<allow copy over dynamic partition> ::= [OVERDYNAMIC](#)

<partitions layout style> ::= [PARTSTYLE](#) <partitions layout style parameters>

<partitions layout style parameters> ::= [SOURCE](#) | [MBR](#) | [GPT](#) | [TARGET](#)

<start position> ::= [START](#) = <size operand>

<store> ::= [STORE](#)

<restore hard disk> ::= <clear disk> <select all images> [\[OPTIONS](#) <restore options> {<restore options>}<restore>

<clear disk> ::= [DELETE ALL](#)

<update mbr> ::= [UPDATE MBR](#)

<set disk layout> ::= [SET LAYOUT](#) /[STYLE](#) = <string> /[TYPE](#) = <string>

<online disk> ::= [ONLINEDISK](#)

<throttle disk> ::= [THROTTLE](#) <protect disk switch> {<throttle options>}

<throttle options> ::= /[MAX_PREEMPT_TIME_MS](#) = <size operand> | /[TIME_BEFORE_IDLE_MS](#) = <size operand> | /[AVG_SERVICE_TIME_MS](#) = <size operand> | /[BOOST](#) = <size operand> | /[SIGNIFICANCE](#) = <size operand>

<convert to basic> ::= [CONVERT](#) /[PRIMARY](#) = <size operand>

<set mbr signature> ::= [SETMBRSIGNATURE](#) (<disk indicator>, <size operand>)

<compact mft> ::= [COMPACT MFT](#) {<compact mft options>}

<compact mft options> ::= [TRUNCATE_UNUSED_RECORDS](#) | [MOVE_RECORDS](#)

<check fs> ::= [CHECK](#)

<fix fs> ::= [FIXFS](#) {<fix fs options>}

<dump fs> ::= [DUMPFS](#) /[PATH](#) = <string>

<fix fs options> ::= [FIX_ERRORS](#) | [CHECK_BADS](#)

<undelete partition> ::= [UNDELETE](#) /[STARTSECTOR](#) = <size operand> /[ENDSECTOR](#) = <size operand>

<align partition> ::= [ALIGN_PARTITION](#) {<align options>} /[CHECKFS](#) = <string> /[RESTART](#) = <string>

<align options> ::= /[TRACKSPERCYLINDER](#) = <size operand> | /[SECTORSPEPTRACK](#) = <size operand> | /[OPTIMIZE](#) | /[USEHOTPAT](#) | [OFFSET](#) = <size operand>

<make increment> ::= <increment copy> | <increment store>

<increment copy> ::= [[INCREMENTOPTIONS](#) <increment options> {<increment options>}] [INCREMENT COPY](#) [[FILES](#)] [/[PATH](#) = <string>] [/[POSITION](#) = <size operand>]

<increment store> ::= [[INCREMENTOPTIONS](#) <increment options> {<increment options>}] [INCREMENT STORE](#) [[FILES](#)] [/[PATH](#) = <string>] [/[POSITION](#) = <size operand>]

<increment options> ::= <base index file path> | <index file path> | <diff method> | <exclude parameter> | <exclude writer parameter> | [FILES_SOURCE_DIR](#) = <string> | [FILES_TARGET_DIR](#) = <string> | [FILES_COMPARE_MASK](#) = <string>

<make cdp increment> ::= [CDP_OPTIONS <cdp options> {<cdp options>}] CDP INCREMENT /TASKNAME = <string> /PATH = <string> /VENDOR = <string> [/ADAPTER = <string>] [/SUBTYPE = <string>]

<cdp options> ::= <exclude parameter>

<select all images> ::= SELECT IMAGE ALL

<ftp user> ::= FTP_USER = <string>

<ftp password> ::= FTP_PWD = <string>

<sftp private key> ::= SFTP_PRVKEYPATH = <string>

<sftp public key> ::= SFTP_PUBKEYPATH = <string>

<sftp passphrase> ::= SFTP_PASSPHRASE = <string>

<smb user> ::= SMB_USER = <string>

<smb password> ::= SMB_PWD = <string>

<restore options> ::= <bad sector checking> | <password> | <verify written> | <start position> | AUTORESIZE | AUTOEJECT | <exclude parameter> | ADAPTIVE | ASIS CHECK | <ftp user> | <ftp password> | <sftp private key> | <sftp public key> | <sftp passphrase> | <smb user> | <smb password>

<restore> ::= RESTORE

<operation with partition> ::= <store partition> | <restore partition> | <rearrange image> | <update archive in base>

<store partition> ::= {<select partition>} [OPTIONS <store options> {<store options>}] <store>

<store complex archive> ::= [OPTIONS <store options> {<store options>}] <store> COMPLEX

<store files archive> ::= [OPTIONS <store options> {<store options>}] <store> FILES

<store index file> ::= [OPTIONS <store options> {<store options>}] <store> INDEX

<restore partition> ::= <select image> [<image restore options>] [OPTIONS <restore options> {<restore options>}] <restore>

<rearrange image> ::= <select image> <select base archive> [OPTIONS <store options> {<store options>}] REARRANGE

<update archive in base> ::= <select image> <select base archive> BASE UPDATE

<select image> ::= <select all images> | SELECT IMAGE <size operand> | SELECT IMAGE <string>

<maybe select image> ::= <select image> [<image restore options>]

<image restore options> ::= [RESIZE IMAGE NO](#) | [RESIZE IMAGE](#) <size operand> | [RESIZE IMAGE MAX](#)

<operations with MBR> ::= <store MBR> | <restore MBR>

<store MBR> ::= <select mbr> [[OPTIONS](#) <store options> {<store options>}] <store>

<restore MBR> ::= <select mbr> [[OPTIONS](#) <restore options> {<restore options>}] [<maybe select image>] <restore>

<select MBR> ::= [SELECT MBR](#) <disk indicator>

<operations with first track> ::= <store first track> | <restore first track>

<store first track> ::= <select first track> [[OPTIONS](#) <store options> {<store options>}] <store>

<restore first track> ::= <select first track> [[OPTIONS](#) <restore options> {<restore options>}] [<maybe select image>] <restore>

<select first track> ::= [SELECT FIRST TRACK](#) <disk indicator>

<operations with partitions layout> ::= <store partitions layout> | <restore partitions layout>

<store partitions layout> ::= <select partitions layout> [[OPTIONS](#) <store options> {<store options>}] <store>

<restore partitions layout> ::= <select partitions layout> [[OPTIONS](#) <restore options> {<restore options>}] [<maybe select image>] <restore>

<select partitions layout> ::= [SELECT PARTS LAYOUT](#) <disk indicator>

<set slots> ::= [SET SLOTS](#) [SLOT0](#) = <slot define> [SLOT1](#) = <slot define> [SLOT2](#) = <slot define> [SLOT3](#) = <slot define>

<slot define> ::= <size operand> | [FREE](#)

<create partition> ::= [CREATE](#) /[FS](#) = <partition type> {<create options>}

<partition type> ::= [FAT](#) | [FAT32](#) | [NTFS](#) | [LINUXEXT2](#) | [LINUXEXT3](#) | [LINUXEXT4](#) | [LINUXSWAP](#) | [LINUXSWAP2](#) | [HFS](#) | [EXFAT](#) | [REFS](#) | [XFS](#) | [BACKUP CAPSULE](#) | [EXTENDED](#) | [UNFORMATTED](#)

<create options> ::= /[LABEL](#) = <string> | /[SIZE](#) = <size operand> | /[POSITION](#) = <align> | /[ID](#) = <size operand> | /[TYPE](#) = <create as> | [ASIS](#) | [AUTO RESIZE EXTENDED](#) | /[AUTO ALLOCATE](#) | /[BOOT](#) = <protect disk switch> | /[BOOTSIZ](#)E = <size operand>

<align> ::= [BEGINNING](#) | [END](#) | <size operand>

<create as> ::= [PRIMARY](#) | [LOGICAL](#) | [EXTENDED](#)

<format partition> ::= [FORMAT](#) <format specification> {[/NTBUILDINFORMAT](#)} [/FS](#) = <fs type> {<format options>}

<format specification> ::= <string> | “NO NAME” | “UNKNOWN”

<fs type> ::= [FAT](#) | [FAT32](#) | [NTFS](#) | [LINUXEXT2](#) | [LINUXEXT3](#) | [LINUXEXT4](#) | [LINUXSWAP](#) | [LINUXSWAP2](#) | [HFS](#) | [EXFAT](#) | [REFS](#) | [XFS](#) | [BACKUP_CAPSULE](#)

<format options> ::= [/LABEL](#) = <string> | [/CLUSTER](#) = <size operand> | [/ROOT](#) = <size operand> | [/BOOT](#) = <size operand>

<sets flag for partition> ::= <flag options>

<flag options> ::= [HIDE](#) | [UNHIDE](#) | [SET ACTIVE](#) | [SET INACTIVE](#)

<resize partition> ::= <resize> | <resize larger> | <resize left boundary> | <resize left boundary larger> | <resize left boundary smaller> | <resize smaller> | <resize space after> | <resize space before>

<resize> ::= [RESIZE](#) <resize parameter> [[set cluster size](#)]

<resize parameter> ::= [MIN](#) | [MAX](#) | <size operand>

<cluster size> ::= 512 | 1 | 2 | 4 | 8 | 16 | 32 | 64

<set cluster size> ::= [/CLUSTERSIZE](#) = <cluster size>

<resize larger> ::= [RESIZE LARGER](#) <resize parameter> [[set cluster size](#)]

<resize left boundary> ::= [RESIZE LEFT BOUNDARY](#) <resize parameter>

<resize left boundary larger> ::= [RESIZE LEFT BOUNDARY LARGER](#) <resize parameter>

<resize left boundary smaller> ::= [RESIZE LEFT BOUNDARY SMALLER](#) <resize parameter>

<resize smaller> ::= [RESIZE SMALLER](#) <resize parameter> [[set cluster size](#)]

<resize space after> ::= [RESIZE SPACE AFTER](#) <resize parameter> [[set cluster size](#)]

<resize space before> ::= [RESIZE SPACE BEFORE](#) <resize parameter>

<redistribute partition> ::= [REDISTRIBUTE](#) [/SIZE](#) = <size operand>

<modify partition> ::= <convert> | <convert in place> | <change volume label> | <change serial> | <change cluster> | <change partition mbr type> | <change gpt partition type> | <print gpt partition guid> | <print dynamic volume guid> | <print dynamic volume group name> | <print dynamic volume name>

<convert> ::= [CONVERT TO PRIMARY](#) | [CONVERT TO LOGICAL](#)

<convert in place> ::= [[CONVERTOPTIONS](#) <convert options> {<convert options>}] [CONVERT_FS TO](#)
 <convert to fs type> [[set cluster size](#)]

<convert to fs type> ::= [FAT](#) | [FAT32](#) | [NTFS](#) | [LINUXEXT2](#) | [LINUXEXT3](#) | [LINUXEXT4](#) | [LINUXSWAP](#) |
[LINUXSWAP2](#) | [HFS](#) | [EXFAT](#) | [REFS](#) | [XFS](#)

<convert options> ::= <exclude parameter>

<change cluster> ::= [RESIZE CLUSTER](#) <resize parameter>

<change volume label> ::= [LABEL](#) [[/SETLABEL](#) = <string>]

<change serial> ::= [SERIAL](#) [[/SETSERIAL](#) = <string>]

<change partition mbr type> ::= [PARTITIONID](#) [[/SETID](#) = <size operand>]

<change gpt partition type> ::= [GPTTYPE](#) [[/SETTYPE](#) = <string>]

<print gpt partition guid> ::= [GPTID](#)

<print dynamic volume guid> ::= [VOLUMEID](#)

<print dynamic volume group name> ::= [VOLUMEGROUPNAME](#)

<print dynamic volume name> ::= [VOLUMENAME](#)

<delete partition> ::= [DELETE](#) <delete options>

<delete options> ::= <string> | “NO NAME” | “LINUXSWAP” | “UNKNOWN”

<wipe> ::= [WIPE](#) {<wipe options>} [<wipe report>] | [WIPE DISK](#) {<wipe options>} [<wipe report>]

<wipe options> ::= <wipe old options> | [METHOD = CUSTOM](#) <wipe old options> | [METHOD =](#)
 <[US_DOD](#) | [US_NAVY_RLL](#) | [US_NAVY_MFM](#) | [BRITISH_HMG_INFOSEC](#) | [GERMAN_VSLTR](#) |
[AUSTRALIAN_ASCII_33](#) | [RUSSIAN_GOST](#) | [GUTTMANS](#) | [SCHNEIDERS](#) | [PARAGONS](#)>
 <[wipe new options](#)>

<wipe_new_options> ::= [VERIFY](#) = <size operand>

<wipe_old_options> ::= [MASK](#) = <size operand> | [PASS](#) = <size operand> | [PERCENTS](#) = <size operand>

<hex mask> ::= 0x<hex digit>{<hex digit>}

<hex digit> ::= <digit> | A | B | C | D | E | F

<clear free space> ::= [CLEAR](#) {<wipe options>} [<wipe report>]

<wipe report> ::= [/REPORT](#) = <string>

<protect> ::= [<partition protect>](#) | [<disk protect>](#)

<partition protect> ::= [<protect partition>](#) | [<unprotect partition>](#)

<disk protect> ::= [SET DRIVE READ ONLY MODE](#) [<protect disk switch>](#)

<protect partition> ::= [PROTECT PARTITION FIRST](#) | [PROTECT PARTITION LAST](#) | [PROTECT PARTITION](#)

<unprotect partition> ::= [UNPROTECT PARTITION FIRST](#) | [UNPROTECT PARTITION LAST](#) | [UNPROTECT PARTITION](#)

<protect disk switch> ::= [ON](#) | [OFF](#)

<move partition> ::=

[\[MOVEOPTIONS <move options> {<move options>}\]](#) [<move left>](#) |

[\[MOVEOPTIONS <move options> {<move options>}\]](#) [<move right>](#) |

[\[MOVEOPTIONS <move options> {<move options>}\]](#) [<move space before>](#) |

[\[MOVEOPTIONS <move options> {<move options>}\]](#) [<move space after>](#) |

[\[MOVEOPTIONS <move options> {<move options>}\]](#) [MOVE](#) {<move partition options>}

<move left> ::= [MOVE LEFT](#) [<resize parameter>](#)

<move right> ::= [MOVE RIGHT](#) [<resize parameter>](#)

<move space before> ::= [MOVE SPACE BEFORE](#) [<move parameter>](#)

<move parameter> ::= [MAX](#) | [<size operand>](#)

<move space after> ::= [MOVE SPACE AFTER](#) [<move parameter>](#)

<move partition options> ::= [/SIZE = <size operand>](#) | [/POSITION = <size operand>](#) | [MOVE LEFT](#) | [MOVE RIGHT](#) | [MOVE RESIZE](#) | [AUTO RESIZE EXTENDED](#) | [MOVE SHIFT EXTENDED START MAX](#) | [MOVE SHIFT EXTENDED START MIN](#) | [MOVE SHIFT EXTENDED END MAX](#) | [MOVE SHIFT EXTENDED END MIN](#)

<move options> ::= [<sector by sector>](#) | [<bad sector checking>](#)

<index file path> ::= [INDEX](#) = [<string>](#)

<copytest file path> ::= [COPYTESTFILE](#) = [<string>](#)

<base Index file path> ::= [BASE INDEX](#) = [<string>](#)

<exclude parameter> ::= [EXCLUDE](#) = [<string>](#)

<exclude writer parameter> ::= [EXCLUDE_WRITER](#) = [<string>](#)

<copy options> ::= <sector by sector> | <bad sector checking> | <verify written> | <allow copy over basic partition> | <allow copy over dynamic partition> | [NOBOOTFIX](#) | [KEEP LAYOUT](#) | <index file path> | <copytest file path> | [HDDRAWPROCESS](#) | <partitions layout style> | [HOTBACKUP](#) <hotbackup parameters> | [TEMPDRIVE](#) <letter> | [USEVSS](#) | [COPYDISKMET AID](#) | [COPYPARTMET AID](#) | [ADDEFIBOOT](#) | [RETAIN](#) | <exclude parameter> | <exclude writer parameter> | [COPY_SOURCE DIR](#) = <string> | [COPY_TARGET DIR](#) = <string> | [COPY_MASK](#) = <string>

<copy partition> ::= [[COPYOPTIONS](#) <copy options> {<copy options>}] [COPY](#) [[FILES](#)] {<copy partition options>}

<copy partition options> ::= /[SIZE](#) = <size operand> | /[POSITION](#) = <size operand> | [AUTORESIZE](#)
<copy partition to zip archive> ::= [[COPY_TO ZIP OPTIONS](#) <copy to zip options> {<copy to zip options>}] [COPY_TO ZIP](#) /[PATH](#) = <string>

<copy to zip options> ::= <password> | <compression> | <exclude parameter> | <exclude writer parameter> | [COPY_SOURCE DIR](#) = <string> | [COPY_TARGET DIR](#) = <string> | [COPY_MASK](#) = <string>

<copy disk> ::= [[COPYOPTIONS](#) <copy options> {<copy options>}] [COPYDISK](#) {<copy disk options>}

<copy disk options> ::= [NO_FREESPACES](#) | [PROPORTIONAL](#) <resize parameter> | [MIGRATE](#) | [LAYOUT](#)

<copy disk selective> ::= [[COPYOPTIONS](#) <copy options> {<copy options>}] [COPYDISKEX](#) [/[START](#) = <size operand>] [/[PROPOTIONAL](#) = <resize parameter>] [/[ALIGNMENT](#) = <alignment parameter>] [/[TRACKSPERCYLINDER](#) = <size operand>] [/[SECTORS PERTRACK](#) = <size operand>]

<select partition for selective copy disk> ::= [[COPYOPTIONS](#) <copy options> {<copy options>}] [COPYDISKEX PARTITION](#) [<selective copy partition resize parameter>]

<copy disk test> ::= [COPYDISKTEST](#) (<filename*>, <filename*>)

<alignment parameter> ::= [LEGACY](#) | [VISTA](#) | [INHERITANCE](#) | [MANUAL](#)

<selective copy partition resize parameter> ::= /[SIZE](#) = <size operand> | [NORESIZ E](#)

<mount or umount> ::= [UMOUNT](#) | [MOUNT](#) “<letter>” | [MOUNT](#) <string> | [MOUNT ALL](#) | [UMOUNT ALL](#)

<list> ::= [LIST](#) (<size operand>, <size operand>) | [MOUNTLIST](#) (<size operand>, <size operand>) | [FULLLIST](#) (<size operand>, <size operand>) | [LIST WRITERS](#) | [LIST VOLUMES](#)

<merge partitions> ::= [[MERGEOPTIONS](#) <merge options> {<merge options>}] [MERGE_FS](#) <string>

<merge options> ::= <exclude parameter>

<split partition> ::= [[SPLITOPTIONS](#) <split options> {<split options>}] [SPLIT_FS](#) /[SIZE](#) = <size operand>

<split options> ::= [CHILDDRIVE](#) <letter> | [FILE](#) = <filename*> | <exclude parameter>

<defragment> ::= [DEFRAGMENT MFT](#) | [DEFRAGMENT PARTITION](#) {<defragment options>}

<defragment options> ::= [SKIP SWAP](#) | [SORT TIME ASCENDING](#) | [SORT TIME ASIS](#) | [SORT TIME DESCENDING](#) | [SORT DIRECTORIES FIRST](#) | [SORT DIRECTORIES ASIS](#) | [SORT DIRECTORIES LAST](#) | [SORT FILES FIRST](#) | [SORT FILES ASIS](#) | [SORT FILES LAST](#) | [SORT LARGEST FIRST](#) | [SORT LARGEST ASIS](#) | [SORT LARGEST LAST](#) | [SORT SMALLEST FIRST](#) | [SORT SMALLEST ASIS](#) | [SORT SMALLEST LAST](#)

<goto> ::= [GOTO](#) <label> | [CALL](#) <label>

<print> ::= [PRINT](#) <string> | [PRINTDEC](#) <size operand> | [PRINTHEX](#) <size operand>

<debug> ::= [SCO](#) <protect disk switch>

<shell execute> ::=

[EXEC FILE](#) <filename*> [[PARAMETERS](#) <string> {<string>} [ENDPARAMETERS](#)] | [RUN FILE](#) <filename*> [[PARAMETERS](#) <string> {<string>} [ENDPARAMETERS](#)]

<default answers> ::= [CONFIRM](#) <protect disk switch>

<cycle> ::= <disk cycle> | <partition cycle> | <do .. while cycle>

<do .. while cycle> ::= [DO](#) {<command>} [WHILE](#) (<clause>)

<disk cycle> ::= [FOR ALL DISKS](#) {<command>} [ENDFOR](#)

<partition cycle> ::= [FOR ALL PARTITIONS](#) {<command>} [ENDFOR](#)

<condition> ::= [IF](#) (<clause>) [THEN](#) {<command>} [ENDIF](#) [[ELSE](#) {<command>} [ENDELSE](#)]

<clause> ::= <if clause> | <clause> [AND](#) <clause> | <clause> [OR](#) <clause> | [NOT](#) <clause> | (<clause>)

<if clause> ::= <if boot> | <if hidden> | <if primary> | <if extended> | <if logical> | <if fat> | <if size> | <if filesystem> | <if time> | <ask> | <if errorcode> | <if exist> | <if mount name> | <if label> | <if letter> | <if gpt type> | <if gpt guid> | <if unknown> | <if unformatted> | <if errornoeuse> | <if free> | <if file exist> | <if file is dir> | <if os> | <if compare strings> | <if subsource partition> | <if subsource extended> | <if subsource disk> | <if subsource mbr> | <if subsource first track> | <if WD advanced> | <if canmove> | <if canresize> | <if service>

<if boot> ::= [BOOT](#) (<disk indicator> , <partition indicator>)

<if hidden> ::= [HIDDEN](#) (<disk indicator> , <partition indicator>)

<if primary> ::= [PRIMARY](#) (<disk indicator> , <partition indicator>)

<if extended> ::= [EXTENDED](#) (<disk indicator> , <partition indicator>)

<if logical> ::= [LOGICAL](#) (<disk indicator> , <partition indicator>)

<if fat> ::= [FAT](#) (<disk indicator> , <partition indicator>)

<if size> ::= [<size operand>](#) [<comparison>](#) [<size operand>](#)

<if filesystem> ::= [FILESYSTEM](#) ([<disk indicator>](#) , [<partition indicator>](#)) [<equal>](#) [<fs type>](#)

<if time> ::= [TIME](#) ([<hour>](#) : [<minute>](#) [<day>](#) : [<month>](#) : [<year>](#))

<ask> ::= [ASK](#)

<if errorcode> ::= [<error operand>](#) [<comparison>](#) [<error operand next>](#)

<error operand> ::= [ERRORCODE](#) ([<size operand>](#))

<error operand next> ::= [<error operand>](#) | [<size operand>](#)

<comparison> ::= < | <= | >= | > | == | != | <>

<if exist> ::= [<if exist disk>](#) | [<if exist partition>](#)

<if exist disk> ::= [EXIST](#) ([<disk indicator>](#))

<if exist partition> ::= [EXIST](#) ([<disk indicator>](#) , [<partition indicator>](#))

<if mount name> ::= [MOUNT](#) ([<disk indicator>](#) , [<partition indicator>](#)) [<equal>](#) [<string>](#)

<if label> ::= [LABEL](#) ([<disk indicator>](#) , [<partition indicator>](#)) [<equal>](#) [<string>](#)

<if letter> ::= [LETTER](#) ([<disk indicator>](#) , [<partition indicator>](#)) [<equal>](#) [<string>](#)

<if gpt type> ::= [GPTTYPE](#) ([<disk indicator>](#) , [<partition indicator>](#)) [<equal>](#) [<string>](#)

<if gpt guid> ::= [GPTID](#) ([<disk indicator>](#) , [<partition indicator>](#)) [<equal>](#) [<string>](#)

<if unknown> ::= [UNKNOWN](#) ([<disk indicator>](#) , [<partition indicator>](#))

<if unformatted> ::= [UNFORMATTED](#) ([<disk indicator>](#) , [<partition indicator>](#))

<if errornoeuse> ::= [ERRORNOEUSE](#) ([<disk indicator>](#) , [<partition indicator>](#))

<if free> ::= [FREE](#) ([<disk indicator>](#) , [<partition indicator>](#))

<if file exist> ::= [FILEEXIST](#) ([<filename*>](#))

<if file is dir> ::= [FILEISDIR](#) ([<filename*>](#))

<if os> ::= [OS](#) [<equal>](#) [<os name>](#)

<os name> ::= [DOS](#) | [WINNT](#) | [WIN2K](#) | [WINXP](#) | [WIN2K3](#) | [WINVISTA](#) | [WIN7](#) | [WIN8](#) | [WIN81](#) | [LINUX](#) | [MACOS](#) | [BLUESCREEN](#)

<if compare strings> ::=
[STRINGSEQUAL](#) (<string>, <string>) |
[STRINGSNOTEQUAL](#) (<string>, <string>) |
[STRINGSCASEEQUAL](#) (<string>, <string>) |
[STRINGSCASENOTEQUAL](#) (<string>, <string>) |
[CONTAINSTRING](#) (<string>, <string>)

<if subsource partition> ::= [SUBSOURCEPARTITION](#) (<filename*>, <string>, <size operand>)

<if subsource extended> ::= [SUBSOURCEEXTENDED](#) (<filename*>, <string>, <size operand>)

<if subsource disk> ::= [SUBSOURCEDISK](#) (<filename*>, <string>, <size operand>)

<if subsource mbr> ::= [SUBSOURCEMBR](#) (<filename*>, <string>, <size operand>)

<if subsource first track> ::= [SUBSOURCEFIRSTTRACK](#) (<filename*>, <string>, <size operand>)

<if WD advanced> ::= [WDADV](#) (<disk indicator>)

<if canmove> ::= [CAN_MOVE](#) (<disk indicator>, <partition indicator>)

<if canresize> ::= [CAN_RESIZE](#) (<disk indicator>, <partition indicator>)

<if service> ::= [SERVICE](#) (<disk indicator>, <partition indicator>)

<disk indicator> ::= [CURDISK](#) | <size operand> | <linux name> | <string>

<partition indicator> ::= [CURPARTITION](#) | <size operand> | <letter> | <string> | [FIRST](#) | [LAST](#) | [EXTENDED](#) | [LARGEST](#) | [SMALLEST](#)

<messagebox> ::=
[MESSAGE](#) (<message text>, <message type>, <button1 text>, <button2 text>, <message title>) |
[MESSAGE](#) (<message text>, <message type>, <button1 text>, <button2 text>) |
[MESSAGE](#) (<message text>, <message type>, <button1 text>) |
[MESSAGE](#) (<message text>, <message type>)

<message text> ::= <string>

<message type> ::= [MB_OK](#) | [MB_OKCANCEL](#) | [MB_YESNO](#)

<button1 text> ::= <string>

<button2 text> ::= <string>

<message title> ::= <string>

<value> ::= [VALUE](#) (<name>)

<parameter> ::= [PARAMETER](#) (<name>)
<arithmetic> ::= - | + | * | /
<equal> ::= == | != | <>
<reboot> ::= [REBOOT](#)
<hour> ::= <digit> <digit>
<minute> ::= <digit> <digit>
<day> ::= <digit> <digit>
<month> ::= <digit> <digit>
<year> ::= <digit> <digit>
<apply> ::= [APPLY](#) <size operand> | [APPLY ALL](#)
<undo> ::= [UNDO](#) <size operand> | [UNDO ALL](#)
<pause> ::= [PAUSE](#) (<size operand>)
<strerror> ::= [STRERROR](#) (<error operand next>)
<exit_prog> ::= [EXIT](#) (<error operand next>)
<endcall> ::= [ENDCALL](#)
<settings block> ::= [SETTINGS](#) {<settings commands>} [ENDSETTINGS](#)
<settings commands> ::=
[SURFACETEST](#) <protect disk switch> |
[VERIFY](#) <protect disk switch> |
[COPYONETOONE](#) <protect disk switch> |
[DONOTHIDETARGET](#) <protect disk switch> |
[BIGDRIVES](#) <protect disk switch> |
[COMPRESSIONLEVEL](#) <size operand> |
[NODELLABEL](#) <protect disk switch> |
[TIMESHIFT](#) <size operand> |
[OEMCODEPAGE](#) <size operand> |
[TIMEZONE](#) <size operand> |
[LANGNUMBER](#) <size operand> |
[ENABLERESTART](#) <restart parameters> |
[ENABLEVIRTUALDB](#) <protect disk switch> |
[AUTOCONVERTTOFAT32](#) <protect disk switch> |
[FIXTARGETBCD](#) <protect disk switch> |
[SECTORDIFFMETHOD](#) <sectordiffmethod parameters> |

[FILEDIFFMETHOD](#) <filediffmethod parameters> |
[PROCESS11POLICY](#) <process11 parameters> |
[HOTBACKUP](#) <hotbackup parameters> |
[TEMPDRIVE](#) <letter> |
[HDDRAWPROCESS](#) <protect disk switch> |
[BOOTCDISO](#) <string> |
[BOOTCDTYPE](#) <bootcdtype parameters> |
[FILENAMES_ENCODING](#) <encoding type> |
[VSS2HBSWITCH](#) <protect disk switch> |
[VSSATTEMPTS](#) <size operand> |
[VSSTIMEOUT](#) <size operand> |
[ENABLEFIXTARGETEFINVRAM](#) <protect disk switch>

<restart parameters> ::= [ON](#) | [OFF](#) | [POWERLOSS](#)

<sectordiffmethod parameters> ::= [METADATA](#) | [VOLUME](#) | [FILES](#)

<filediffmethod parameters> ::= [METADATA](#) | [FILES](#)

<process11 parameters> ::= [ALWAYS](#) | [NEVER](#) | [ASK](#)

<bootcdtype parameters> ::= [FIRST](#) | [EVERY](#) | [NO](#)

<hotbackup parameters> ::= [OPTIONAL](#) | [ALWAYS](#) | [LOCKIMPOSSIBLE](#) | [NEVER](#)

<encoding type> ::= [MBCS](#) | [UTF8](#)

<filename> - is a <string>, but it has its own grammar.

<filename> ::= <[ordinary file](#)> | <[UFSD file](#)> | <[CD/DVD file](#)>

<ordinary file> ::= <[drive](#)><[path](#)>

<ordinary file without slashes> ::= <[drive without slashes](#)><[path](#)>

<UFSD file> ::= [UFSD:](#)</></><[ordinary file without slashes](#)>

<CD/DVD file> ::= [CDB:](#)</></><[number](#)></><[path](#)>

<drive> ::= <[dos drive](#)> | <[linux drive](#)> | <[common drive](#)> | <[network file](#)>

<drive without slashes> ::= <[dos drive](#)> | <[linux name](#)><[number](#)></> | [HARD](#)<[number](#)></><[partition id](#)></> | [\(SELECT\)](#)</>

<dos drive> ::= <[letter](#)>:</>

<linux drive> ::= </><[linux name](#)><[number](#)></> | </>

<network file> ::= </></><[host](#)></><[path](#)>

<path> ::= {<any symbol>}

<common drive> ::= </>HARD<number></><partition id></> | (SELECT)</>

<partition id> ::= PARTITION<number> | PARTSTART<number> | PRIMARY<number> | LOGICAL<number>

<psr command> ::= <set psr options> | <install psr> | <uninstall psr>

<set psr options> ::= PSR OPTIONS <select scenario type> <select os type> [<select source dir> | <select source iso>] <select install dir> [<select timeout>] [<select key>] [<select message>] ENDOPTIONS

<install psr> ::= PSR INSTALL

<uninstall psr> ::= PSR UNINSTALL

<select scenario type> ::= PSR_SCENARIO_TYPE = <scenario type>

<scenario type> ::= PSR_SCENARIO_BOOT | PSR_SCENARIO_REBOOT

<select os type> ::= PSR_OS_TYPE = <os type>

<os type> ::= PSR_OS_DOS | PSR_OS_LINUX | PSR_OS_ALL | PSR_OS_WINPE

<select source dir> ::= PSR_SOURCE_DIR = <string>

<select source iso> ::= PSR_SOURCE_ISO = <string>

<select install dir> ::= PSR_INSTALL_DIR = <string>

<select timeout> ::= TIMEOUT = <string>

<select key> ::= KEY = <key>

<key> ::= <size operand> | KEY_A | ... | KEY_Z | KEY_0 | ... | KEY_9 | KEY_F1 | ... | KEY_F12 | KEY_ESC | KEY_MINUS | KEY_EQUALS | KEY_BACKSPACE | KEY_TAB | KEY_OPENBRACE | KEY_CLOSEBRACE | KEY_ENTER | KEY_COLON | KEY_QUOTE | KEY_BACKSLASH | KEY_COMMA | KEY_DOT | KEY_SLASH | KEY_SPACE | KEY_HOME | KEY_END | KEY_PGUP | KEY_PGDN | KEY_INSERT | KEY_DELETE | KEY_UP | KEY_DOWN | KEY_LEFT | KEY_RIGHT | KEY_ASTERISK_PAD | KEY_MINUS_PAD | KEY_PLUS_PAD | KEY_LSHIFT | KEY_RSHIFT | KEY_LCONTROL | KEY_RCONTROL | KEY_LALT | KEY_RALT | KEY_SCRLOCK | KEY_NUMLOCK | KEY_CAPSLOCK

<select message> ::= MESSAGE = <string>

<bm command> ::= <set bm options> | <install bm> | <uninstall bm>

<set bm options> ::= [BM OPTIONS](#) [[<select bm path>](#)] [[<select timeout>](#)] [[<select key>](#)] [[<select message>](#)] [[<use old mbr>](#)] [ENDOPTIONS](#)

<install bm> ::= [BM INSTALL](#) | [BM INSTALL ON DISK](#) [<size operand>](#)

<uninstall bm> ::= [BM UNINSTALL](#)

<select bm path> ::= [BM](#) = [<string>](#)

<use old mbr> ::= [OLDMBR](#)

Semantics

Each operation predefines the operation algorithm the user has to follow. For example, such operations as store partition/ disk, restore partition/ disk first require setting up an appropriate disk/ partition and a backup file. For such operations as create, format, resize, modify, delete, wipe, clear free space, protect, move, check surface the user must select disk/ partition. It should be mentioned here, that the disks/ partitions numeration always starts from zero.

Let's take a look at some operations and their controls.

UNSELECT ALL:

Unselects all previously selected objects (disks and partitions).

OPTIONS:

Specifies the beginning of the options group.

ENDOPTIONS:

Specifies the ending of the options box.

COPYOPTIONS:

Specifies the copy options group.

COPY_TO_ZIP_OPTIONS:

Specifies the copy into zip archive options group.

MOVEOPTIONS:

Specifies the move options group.

INCREMENTOPTIONS:

Specifies the increment options group.

CDP_OPTIONS:

Specifies the increment cdp options group.

SELECT DRIVE:

SELECT DISK:

Selects HDD.

SELECT PARTITIONS ALL:

Selects all the partitions on the disk.

IMG:

Specifies a path and a filename for the image file.

BASE:

Specifies a path and a filename of the base archive for the incremental backup.

BLUESCRN INSTALL:

Activates bluescreen on next Windows reboot (Win32 only).

/BLUESCRN – path to the Bluescrn.exe custom folder. If set "", scripts will automatically search for Bluescrn.exe in ../Bluescrn, ./, /Bluescrn, ../.

/SCRIPT – path to a script to execute in the bluescreen mode.

/REBOOT – immediately reboots from the current script (optional).

BLUESCRN UNINSTALL

Deletes bluescreen from the Windows register.

LABEL:

Specifies a volume label or an image file label for the partition.

CAS:

Specifies the sector-by-sector copy mode. All data, including deleted files will be saved.

PWD:

Specifies a password.

BASE_PWD:

This parameter is used for setting a password for the base archive (in case there is no password for the base archive, leave the parameter empty).

AUTONAMES:

Specifies automatic generation for subsequent writing.

MFS:

Specifies the maximum image file size (in Kb). When the limit is reached, the image will be split.

CMP:

Specifies the image compression level.

NOARCFILES:

Exclude known archive files from backup by files extensions (*.pbf, etc.).

NOSIGNATURE:

Archives will not be signed.

STORE:

Starts the backup operation.

REARRANGE:

Starts rearranging an archive with different set of options.

BASE UPDATE:

Updates an archive path in the archive database.

DELETE ALL:

Removes all on disk data.

UPDATE MBR:

Updates MBR on the disk by a default value.

SET LAYOUT:

Sets a disk layout.

STYLE should be "MBR" or "GPT";

TYPE should be "BASIC" or "LDM" or "LVM".

ONLINEDISK:

Creates a disk online.

THROTTLE:

Throttle disk.

CONVERT:

Converts a disk from one partition type to another.

SETMBRSIGNATURE:

Changes the disk MBR signature (4 bytes in sector 0 with 0x1B8 offset).

GETMBRSIGNATURE:

Returns the disk MBR signature (4 bytes in sector 0 with 0x1B8 offset).

COMPACT MFT:

Compacts the MFT of an NTFS partition.

TRUNCATE_UNUSED_RECORDS:

Truncates unused MFT records.

MOVE_RECORDS:

Rearranges MFT records in the more optimal way.

FIXFS:

Fixes a file system on a partition.

DUMPFS:

Dumps a file system of a partition to a file.

FIX_ERRORS:

Specifies the fixup of errors.

CHECK_BADS:

Specifies the checkup for bad sectors.

UNDELETE:

Undeletes a deleted partition.

ALIGN_PARTITION:

Aligns boundaries of partitions.

CHECKFS:

Check the used file system method (“NEVER”, “ONCE” or “ALWAYS”).

RESTART:

Check the used restart method (“OFF”, “FAST” or “SAFE”).

TRACKSPERCYLINDER:

Specifies a cylinder size in tracks.

SECTORSPERTRACK:

Specifies a track size in sectors.

OPTIMIZE:

Specifies the optimization operation.

HOTPAT:

Specifies the usage of Hot Pat.

OFFSET:

Specifies an offset.

INCREMENT COPY:

Perform an incremental copy.

INCREMENT STORE:

Perform an incremental backup.

CDP INCREMENT:

Perform an incremental cdp backup.

TASKNAME:

Specifies taskname string.

FILES_SOURCE_DIR:

Specifies FILES_SOURCE_DIR.

FILES_TARGET_DIR:

Specifies FILES_TARGET_DIR.

FILES_COMPARE_MASK:

Specifies FILES_COMPARE_MASK.

SELECT IMAGE ALL:

Selects images of all partitions in the image file.

RESTORE:

Starts the restore operation. All data will be restored to the selected free space.

SELECT PARTITION:

Selects partition by number, letter, volume name.

SELECT PARTITION FIRST:

Selects the first partition on the disk.

SELECT PARTITION LAST:

Selects the last partition on the disk.

SELECT PARTITION EXTENDED:

Selects the extended partition on the disk.

SELECT PARTITION LARGEST:

Selects the largest partition on the disk.

SELECT PARTITION SMALLEST:

Selects the smallest partition on the disk.

SELECT PARTITION NEXT:

Selects the next partition on the disk.

SELECT PARTITION PREVIOUS:

Selects the previous partition on the disk.

SELECT PARTITION OFFSET:

Selects partition by the start sector.

SELECT PARTITION ADDRESS:

Selects partition of the specified sector.

SELECT VOLUME

Selects volume.

SELECT FREESPACE FIRST:

Selects the first free space on the disk.

SELECT FREESPACE LAST:

Selects the last free space on the disk.

SELECT FREESPACE LARGEST:

Selects the largest free space on the disk.

SELECT FREESPACE SMALLEST:

Selects the smallest free space on the disk.

SELECT FREESPACE:

Selects free space by number.

SELECT FREESPACE OFFSET:

Selects free space by the start sector.

SELECT FREESPACE ADDRESS:

Selects free space of the specified sector.

SELECT IMAGE:

Selects image in the image file.

RESIZE IMAGE NO:

The last selected image will not be resized during restore.

RESIZE IMAGE:

Resizes the last selected image according to the specified size (in Kb) during restore.

RESIZE IMAGE MAX:

Resizes the last selected image to the maximum size possible during restore.

SELECT MBR:

Selects the disk for MBR backup/restore operations.

SELECT FIRST TRACK:

Selects the disk for the first track backup/restore operations.

SELECT PARTS LAYOUT:

Selects the disk for the partitions layout backup/restore operations.

SET_SLOTS:

Sets a slots order.

SLOT0:

SLOT1:

SLOT2:

SLOT3:

Specifies a slot number.

CREATE:

Creates a new partition, and format it (optionally).

- FS:**
Specifies the partition file system type.
- SIZE:**
Specifies the size in Kb.
- POSITION:**
Specifies the partition position: begin of the block, end of the block or start sector.
- ID:**
Specifies partition ID for a newly created partition (without format).
- TYPE:**
Specifies a partition type.
- ASIS:**
Specifies no start and size correction of the created partition.
- AUTO_RESIZE_EXTENDED:**
Specifies auto resize of the extended partition.
- AUTO_ALLOCATE:**
Specifies auto allocate space for the Backup Capsule.
- BOOT:**
It's used only for BACKUP_CAPSULE. Specifies that the Backup Capsule is bootable.
- BOOTSIZ:**
It's used only for BACKUP_CAPSULE. Specifies the size of the Backup Capsule's bootable partition.
- BEGINNING:**
Specifies that the created partition should be placed at the beginning of the free space.
- END:**
Specifies that the created partition should be placed at the end of the free space.
- FORMAT:**
Formats the selected partition.
- NTBUILDINFORMAT:**
During the format operation restricts the available values according to the used OS.
- CLUSTER:**
Specifies the number of sectors per clusters.
- BOOT:**
Specifies the number of boot sectors.

ROOT:

Specifies the number of root directory entries.

HIDE:

Hides the selected partition.

UNHIDE:

Unhides the selected partition.

SET ACTIVE:

Makes the selected partition bootable.

SET INACTIVE:

Makes the selected partition non-bootable.

RESIZE:

Change the size of the selected partition.

CLUSTERSIZE:

Sets the specified cluster size.

MAX:

Resizes to the maximum size possible.

MIN:

Resizes to the minimum size possible (defined by the amount of data stored).

RESIZE LARGER:

Increases the partition size by the value specified.

RESIZE LEFT BOUNDARY:

Changes the extended partition size by moving its left boundary.

RESIZE LEFT BOUNDARY LARGER:

Increases the extended partition size by the change of its left boundary.

RESIZE LEFT BOUNDARY SMALLER:

Decreases the extended partition size by the change of its left boundary.

RESIZE SMALLER:

Decreases the partition size by specifying the incremental change in size.

RESIZE SPACE AFTER:

Changes the partition size by specifying the amount of the free space left after the partition when the operation is completed.

RESIZE SPACE BEFORE:

Changes the partition size by specifying the amount of the free space left before the partition when the operation is completed.

REDISTRIBUTE:

Reallocates disk size between partitions.

CONVERT TO PRIMARY:

Converts a logical partition into primary.

CONVERT TO LOGICAL:

Convert a primary partition into logical.

CONVERT_FS TO:

Converts one file system to another in-place.

CONVERTOPTIONS:

Specifies the convert options group.

RESIZE CLUSTER:

Changes the number of sectors per cluster.

SETLABEL:

Changes the volume label of the selected partition.

SERIAL:

With no parameters specified this option displays the serial number of the selected partition.

SETSERIAL:

Specifies the serial number.

PARTITIONID:

With no parameters specified this option displays the partition ID of the selected partition.

GPTTYPE:

With no parameters this option outputs GPT type of the selected partition.

GPTID:

With no parameters this option outputs GPT guid of the selected partition.

VOLUMEID:

With no parameters this option outputs dynamic volume guid of the selected partition.

VOLUMEGROUPNAME:

With no parameters this option outputs dynamic volume group name of the selected partition.

VOLUMENAME:

With no parameters this option outputs dynamic volume name of the selected partition.

SUBSOURCEGUID:

Returns guid of the child archive by filename, password and child number (0-based).

SETID:

Specifies the partition ID.

SETTYPE:

Specifies the partition GPT type.

DELETE:

Removes the selected partition.

WIPE:

Wipes the partition by using the mask and checks the result.

WIPE DISK:

Wipes the disk by using the mask and checks the result.

MASK:

Specifies the wipe mask

PASS:

Specifies the number of wipe passes.

PERCENTS:

Specifies the object size for verification in percents (0-100).

CLEAR:

Fills free space by using the mask and checks result.

REPORT:

Specifies a path to the report file.

SET DRIVE READ ONLY MODE:

Sets or removes the disk write-protection. Write-protection does not work for free blocks

PROTECT PARTITION FIRST:

Sets the first partition write-protection. Write-protection does not work for free blocks.

PROTECT PARTITION LAST:

Sets the last partition write-protection. Write-protection does not work for free blocks.

PROTECT PARTITION:

Sets the selected partition write-protection. Write-protection does not work for free blocks.

UNPROTECT PARTITION FIRST:

Removes the first partition write-protection.

UNPROTECT PARTITION LAST:

Removes the last partition write-protection.

UNPROTECT PARTITION:

Removes the selected partition write-protection.

MOVE:

Moves the selected partition to the selected copy partition.

MOVE LEFT:

Move the selected partition to the left.

MOVE RIGHT:

Move the selected partition to the right.

MOVE SPACE BEFORE:

Same as **move right**.

MOVE SPACE AFTER:

Same as **move left**.

MOVE_LEFT:

Auto move to the left.

MOVE_RIGHT:

Auto move to the right.

MOVE_RESIZE:

Enable resize during the move operation.

MOVE_SHIFT_EXTENDED_START_MAX:**MOVE_SHIFT_EXTENDED_START_MIN:****MOVE_SHIFT_EXTENDED_END_MAX:****MOVE_SHIFT_EXTENDED_END_MIN:**

Additional flags for the extended partition during the move operation.

COPY:

Copies one partition to another.

COPY_TO_ZIP:

Copies partition into the zip archive by files.

SELECT COPY DRIVE:**SELECT COPY DISK:**

Selects the disk for a copy operation.

SELECT COPY PARTITION:

Selects the partition by number, letter or a volume label for a copy operation.

SELECT COPY PARTITION FIRST:

Selects the first partition as a target for a copy operation.

SELECT COPY PARTITION LAST:

Selects the last partition as a target for a copy operation.

SELECT COPY PARTITION EXTENDED:

Selects the extended partition as a target for a copy operation.

SELECT COPY PARTITION LARGEST:

Selects the largest partition as a target for a copy operation.

SELECT COPY PARTITION SMALLEST:

Selects the smallest partition as a target for a copy operation.

SELECT COPY PARTITION NEXT:

Selects the next partition as a target for a copy operation.

SELECT COPY PARTITION PREVIOUS:

Selects the previous partition as a target for a copy operation.

SELECT COPY PARTITION OFFSET:

Selects the partition by offset as a target for a copy operation.

SELECT COPY PARTITION ADDRESS:

Selects partition of the specified sector as a target for a copy operation.

SELECT COPY FREESPACE FIRST:

Selects the first free block as a target partition for a copy operation.

SELECT COPY FREESPACE LAST:

Selects the last free block as a target partition for a copy operation.

SELECT COPY FREESPACE LARGEST:

Selects the largest free block as a target partition for a copy operation.

SELECT COPY FREESPACE SMALLEST:

Selects the smallest free block as a target partition for a copy operation.

SELECT COPY FREESPACE OFFSET:

Selects the free block by offset as a target partition for a copy operation.

SELECT COPY FREESPACE ADDRESS:

Selects free space of the specified sector as a target partition for a copy operation.

SELECT COPY FREESPACE:

Selects the free block by number as a target partition for a copy operation.

GOTO:

Jumps to the label.

PRINT:

Prints the message on the screen.

PRINTDEC:

Prints the number on the screen in decimal format.

PRINTHEX:

Prints the number on the screen in hexadecimal format.

ASK:

Waits for the user to answer. If the user inputs 'y', 'Y' or Enter, this parameter is 'true', otherwise – 'false'.

SCO:

Checks the script syntax only.

EXEC FILE:

Runs the binary file. This command will postpone the script execution until the program is terminated. After that the current status of the program will be available via the [ERRORCODE](#) command.

RUN FILE:

Runs the binary file together with the script.

CONFIRM:

If the confirmation is turned off, default answers will be used. Otherwise, the user will be prompted to input the required answer.

FOR ALL DISKS:

A loop, each iteration of which selects the next drive.

ENDFOR:

The end of the loop.

FOR ALL PARTITIONS:

A loop, each iteration of which selects the next partition.

IF:

A condition branching.

THEN:

This branch is executed when the conditional expression takes the 'true' value.

ENDIF:

The end of the 'true' branch.

ELSE:

This branch is executed when the conditional expression takes the 'false' value.

ENDELSE:

The end of the 'true' branch.

AND:

Conjunction.

OR:

Disjunction.

NOT:

Denial.

BOOT:

Returns 'true' if the partition is bootable, otherwise – 'false'.

HIDDEN:

Returns 'true' if the partition is hidden, otherwise – 'false'.

PRIMARY:

Returns 'true' if the partition is primary, otherwise – 'false'.

EXTENDED:

Returns 'true' if the partition is extended, otherwise – 'false'.

LOGICAL:

Returns 'true' if the partition is logical, otherwise – 'false'.

FAT:

Returns 'true' if the partition has the FAT file system, otherwise – 'false'.

CURDISK:

Currently selected disk.

CURPARTITION:

Currently selected partition.

FIRST:

The first partition on the disk.

LAST:

The last partition on the disk.

EXTENDED:

The extended partition on the disk.

LARGEST:

The largest partition on the disk.

SMALLEST:

The smallest partition on the disk.

SIZEDISK:

Returns the disk size (in Kb).

SIZEPARTITION:

Returns the partition size (in Kb).

SIZEFREE:

Returns the amount of the partition free space (in Kb).

SIZEUSED:

Returns the amount of the partition used space (in Kb).

FILESYSTEM:

Returns the partition file system type.

REBOOT:

Restarts the computer.

CLOSE:

Exits from the running component.

PRESENCE:

Checks the presence of all clients in the multicast group or of standalone clients. Waits for this condition to be 'true'.

TIME:

If the specified time is up, but the current script is not running, it returns 'true', otherwise – 'false'.

CHECK:

Checks the current partition file system integrity.

SURFACETEST:

Checks the surface of the current partition.

ERRORCODE:

Returns the [error code](#) for the specified operation number. If the number is equal to 1, the operation returns the error code for the last operation, if 2 – the previous operation code, etc.

EXIST:

Returns 'true' if the specified drive or partition exists.

FREE:

Returns 'true' if the specified partition is a free block.

MOUNT:

Returns the path for the mounted partition, i.e. C:\ under DOS/Windows or /mnt/dos/ under LINUX.

UNMOUNT:

Unmounts the specified partition.

MOUNT ALL:

In DOS/Windows mounts all mountable partitions of the specified disk assigning available letters. Does not work under LINUX.

UNMOUNT ALL:

Unmounts all mountable partitions of the specified disk.

LIST:

Prints information on partitions. First parameter is the disk number, second – partition. Use -1 as the first parameter for choosing all disks. You may also use -1 as the second parameter for choosing all partitions.

MOUNTLIST:

Prints mount information on partitions. First parameter is the disk number, second – partition. Use -1 as the first parameter for choosing all disks. You may also use -1 as the second parameter for choosing all partitions.

FULLLIST:

Prints in-depth information on partitions in a parsing friendly form. First parameter is the disk number, second – partition. Use -1 as the first parameter for choosing all disks. You may also use -1 as the second parameter for choosing all partitions.

LIST WITERS:

Prints VSS writers.

LIST VOLUMES:

Prints dynamic volumes.

MERGE_FS:

Merges a partition selected by the “select copy partition” command with a partition selected by the “select partition” command to the directory specified as a parameter of the merge operator.

MERGEOPTIONS:

Specifies the merge options group.

SPLIT_FS:

Split a partition.

SPLITOPTIONS:

Specifies the split options group.

CHILDDRIVE:

Specifies a drive letter for the child partition.

FILE:

Specifies a filename.

LABEL:

Returns the partition label.

LETTER:

Returns the partition letter.

APPLY:

Executes the specified number of virtual operations.

APPLY ALL:

Executes all virtual operations.

UNDO:

Cancels the specified number of virtual operations.

UNDO ALL:

Cancels all virtual operations.

PAUSE:

Specifies timeout (in seconds). If the input value is 0, it waits for pressing any key.

AUTORESIZE:

Corrects the size of the target partition automatically to make it take all the available space.

AUTOEJECT:

Auto eject a CD/DVD disc after the operation.

ADAPTIVE:

Adjusts OS to different hardware.

ASIS CHECK:

Checks structure of disks and partitions before the restore as is.

UNKNOWN:

Returns 'true' if the file system is unknown, otherwise – 'false'.

UNFORMATTED:

Returns 'true' if the partition is unformatted, otherwise – 'false'.

ERRORNOEUSE:

Returns 'true' if there are any problem in the MBR->EPR structure, otherwise – 'false'.

SET VARIABLE:

Assigns a variable name to the current partition. It does not work for free blocks.

SET VALUE:

Assigns the specified value to the specified variable.

SHUTDOWN:

Shuts down computer from the script.

VALUE:

Returns the value of variable.

PARAMETER:

Returns the value of the command line parameter.

SELECT PARTITION VARIABLE:

Selects a partition, using a variable assigned to it.

SELECT COPY PARTITION VARIABLE:

Selects a target partition, using a variable assigned to it.

SELECT PARTITION PRIMARY:

Selects a primary partition by number.

SELECT PARTITION LOGICAL:

Selects a logical partition by number.

SELECT FREESPACE PRIMARY:

Selects primary free space by number.

SELECT FREESPACE LOGICAL:

Selects logical free space by number.

SELECT COPY PARTITION PRIMARY:

Selects a primary partition for a copy operation by number.

SELECT COPY PARTITION LOGICAL:

Selects a logical partition for a copy operation by number.

SELECT COPY FREESPACE PRIMARY:

Selects primary free space for a copy operation by number.

SELECT COPY FREESPACE LOGICAL:

Selects logical free space for a copy operation by number.

STRError:

Prints the error description.

EXIT:

Exits the program and returns the specified script exit code.

CALL:

Calls the procedure routine.

ENDCALL:

Returns the control after the point of this procedure call.

PRIORITY:

Specifies the required priority.

DIFFMETHOD:

Specifies the differential data compare method.

CBS:

Checks for bad sectors while running the operation.

RAV:

Specifies the number of passes for the write-verification.

NOBOOTFIX:

Specifies no auto boot fixup after operation.

KEEPPLAYOUT:

Specifies keep existing layout.

PARTSTYLE:

Specifies new partitions style of the copied disk – MBR, GPT, source disk layout or keep existing layout.

COPYDISK:

Copies one disk to another.

COPYDISKTEST:

Test selective disk copy.

COPYDISKEX:

Uses the selective copy function to copy one disk to another.

COPYDISKEX_PARTITION:

Selects a partition for the selective disk copy.

START:

Specifies an area start for the selective copy.

ALIGNMENT:

Enables alignment

TRACKSPERCYLINDER:

Specifies TRACKSPERCYLINDER.

SECTORSPERTRACK:

Specifies SECTORSPERTRACK.

NO_FREESPACES:

Copies one disk to another skipping free blocks.

MIGRATE:

Migrates one disk to another.

LAYOUT:

Copy disk's extents.

PROPORTIONAL:

Copies one disk to another with the proportional size change up to the maximum / minimum / defined values if available.

SETTINGS:

Defines the beginning of the block of settings.

ENDSETTINGS:

Defines the end of the block of settings.

SURFACETEST:

Turns on/off the surface test.

VERIFY:

Turns on/off the data verification while moving.

START:

Indicates the start sector for restoring.

COPYONETOONE:

Turns on/off the copy all sectors 1:1.

DONOTHIDETARGET:

Turns on/off hiding target primary partitions.

BIGDRIVES:

Turns on/off the support for drives of big capacity.

COMPRESSIONLEVEL:

Defines the default compression level for backup operations (0-9).

NODELLABEL:

Turns on/off the user prompt of the volume label in case of partition deletion.

TIMESHIFT:

Defines the time offset in minutes.

OEMCODEPAGE:

Defines the default code page [number](#).

TIMEZONE:

Defines the time zone [code](#).

LANGNUMBER:

Defines the default language [number](#) for current code page.

ENABLERESTART:

Turns on/off the system restart operation.

ENABLEVIRTUALDB:

Turns on/off virtual Backup/Restore operations.

AUTOCONVERTTOFAT32:

Turns on/off auto convert of FAT16 to FAT32.

FIXTARGETBCD:

FIXTARGETBCD.

SECTORDIFFMETHOD:

SECTORDIFFMETHOD.

FILEDIFFMETHOD:

FILEDIFFMETHOD.

PROCESS11POLICY:

Policy how to process raw partitions during operation.

PARTTYPE:

Returns the partition type from MBR.

STARTSECTOR:

Returns the partition start sector.

ENDSECTOR:

Returns the partition end sector.

BOOTSIZ:

Returns the number of boot sectors.

ROOTSIZ:

Returns the root size.

CLUSTERSIZ:

Returns the cluster size.

FATNUMBER:

Returns the number of FAT copies.

INTEGRITY:

Checks the archive integrity.

UFSD:

Accesses the file by using UFSD (Universal File System Driver).

CDB:

Backups/restores file to/from CD/DVD a device. The device is specified by its sequence number.

(SELECT):

Backups/restores file to/from the previously selected partition.

PARTSTART:

Specifies partition by its start sector.

PARTITION:

Specifies partition by its sequence number.

STRING:

Gets string from the string variable.

STRINGPARAMETER:

Gets string from the string parameter.

STRINGDEC:

Creates decimal string representation.

STRINGHEX:

Creates hexadecimal string representation.

SET STRING:

Assigns the specified string value to the specified variable

STRINGLENGTH:

Returns the length of the specified string.

SUBQUANTITY:

If the archive is multivolume, SUBQUANTITY returns volume numbers, using the archive filename and its password.

SOURCESIZE:

Returns the size of a partition/disk contained in the archive, using archive filename and its password.

SUBSOURCESIZE:

If the archive is multivolume, SUBSOURCESIZE returns the size of a partition contained in the archive.

Arguments for this command: archive filename, password and number (0-based).

SUBSOURCEDISK:

If the archive is multivolume, SUBSOURCEDISK returns the partition source disk (0-based) contained in the archive. Arguments for this command: archive filename, password and number (0-based).

SUBSOURCESTART:

If the archive is multivolume, SUBSOURCESTART returns the partition start sector contained in the archive. Arguments for this command: archive filename, password and number (0-based).

SUBSOURCEPARTITION:

If the archive is multivolume, SUBSOURCEPARTITION returns 'true' if the archive under consideration is partition. Arguments for this command: archive filename, password and number (0-based).

SUBSOURCEEXTENDED:

If the archive is multivolume, SUBSOURCEEXTENDED returns 'true' if the archive under consideration is extended partition. Arguments for this command: archive filename, password and number (0-based).

SUBSOURCEDISK:

If the archive is multivolume, SUBSOURCEDISK returns 'true' if the archive under consideration contains is disk. Arguments for this command: archive filename, password and number (0-based).

SUBSOURCEMBR:

If the archive is multivolume, SUBSOURCEMBR returns 'true' if the archive under consideration is mbr. Arguments for this command: archive filename, password and number (0-based).

SUBSOURCEFIRSTTRACK:

If the archive is multivolume, SUBSOURCEFIRSTTRACK returns 'true' if the archive under consideration is first track. Arguments for this command: archive filename, password and number (0-based).

SUBSOURCEDISKNUMBER:

Returns the partition source disk number (0-based) contained in the archive. Arguments for this command: archive filename, password and number (0-based).

CHARTOCODE:

Returns ASCII code of the string first character.

FILESIZE:

Returns size of the specified filename.

FILEEXIST:

Returns 'true' if the specified file exists.

FILEISDIR:

Returns 'true' if the specified file is directory.

FILEDELETE:

Deletes the specified file.

FILEMAKEDIR:

Creates the specified directory.

FILEDELETEDIR:

Deletes the specified directory.

FILECOPYDIR:

Copies the specified directory.

FILERENAME:

Renames the first specified file to the second specified file.

FILECOPY:

Copies the first specified file to the second specified file.

FILEMERGE:

Attaches the second file to the end of the first.

ESTIMATION:

Calculates the archive estimation size. First parameter: 1 – bad estimation, 2 – fast estimation, 3 – good estimation, 4 – best estimation. Second parameter – value name containing the result of operation.

NOWTIME:

Returns the quantity of seconds from 1 January 1970, 00:00:00.

STRINGDAYOFWEEK:

Returns day of week string representation (Sunday, ..., Saturday) of the specified parameter. Parameter – quantity of seconds from 1 January 1970, 00:00:00.

STRINGMONTH:

Returns month string representation (January, ..., December) of the specified parameter. Parameter – quantity of seconds from 1 January 1970, 00:00:00.

STRINGTIME:

Returns string representation of the specified parameter according to the following form: “Sun Jan 4 15:39:14 2004”. Parameter – quantity of seconds from 1 January 1970, 00:00:00.

SUBSTRING:

Extracts substring from the specified string. Parameters: 1) string, from which to extract, 2) start symbol, from which to extract (0-based), 2) maximum length of the extracted substring.

CODETOCHAR:

Converts ASCII code to character and returns the string containing this character.

DAYOFMONTH:

Returns day of month of the specified parameter (1...31). Parameter – quantity of seconds from 1 January 1970, 00:00:00.

HOUR:

Return hour of the specified parameter (0...23). Parameter – quantity of seconds from 1 January 1970, 00:00:00.

DAYOFYEAR:

Returns day of year of the specified parameter (0...365). Parameter – quantity of seconds from 1 January 1970, 00:00:00.

MONTH:

Returns month of the specified parameter (0...11). Parameter – quantity of seconds from 1 January 1970, 00:00:00.

MINUTE:

Returns minute of the specified parameter (0...59). Parameter – quantity of seconds from 1 January 1970, 00:00:00.

SECOND:

Returns second of the specified parameter (0...59). Parameter – quantity of seconds from 1 January 1970, 00:00:00.

DAYOFWEEK:

Returns day of week of the specified parameter (0 – for Sunday, ..., 6 – for Saturday). Parameter – quantity of seconds from 1 January 1970, 00:00:00.

YEAR:

Returns year of the specified parameter. Parameter – quantity of seconds from 1 January 1970, 00:00:00.

DEFRAGMENT MFT:

Defragments MFT of NTFS partition.

DEFRAGMENT PARTITION:

Defragments partition.

SKIP SWAP:

Skips defragmenting swap files.

SORT TIME ASCENDING:

Sorts files by time while defragmenting in ascending order.

SORT TIME ASIS:

Does not sort files by time. Default value.

SORT TIME DESCENDING:

Sorts files by time while defragmenting in descending order.

SORT DIRECTORIES FIRST:

Places directories while defragmenting first. Same as SORT FILES LAST.

SORT DIRECTORIES ASIS:

Does not sort directories and files while defragmenting. Same as SORT FILES ASIS. Default value.

SORT DIRECTORIES LAST:

Places directories while defragmenting last. Same as SORT FILES FIRST.

SORT FILES FIRST:

Places files while defragmenting first. Same as SORT DIRECTORIES LAST.

SORT FILES ASIS:

Does not sort files and directories while defragmenting. Same as SORT DIRECTORIES ASIS. Default value.

SORT FILES LAST:

Places files while defragmenting last. Same as SORT DIRECTORIES FIRST.

SORT LARGEST FIRST:

Places the largest files while defragmenting first. Same as SORT SMALLEST LAST.

SORT LARGEST ASIS:

Does not sort files by size while defragmenting. Same as SORT SMALLEST ASIS. Default value.

SORT LARGEST LAST:

Places the largest files while defragmenting last. Same as SORT SMALLEST FIRST.

SORT SMALLEST FIRST:

Places the smallest files while defragmenting first. Same as SORT LARGEST LAST.

SORT SMALLEST ASIS:

Does not sort files by size while defragmenting. Same as SORT LARGEST ASIS. Default value.

SORT SMALLEST LAST:

Places the smallest files while defragmenting last. Same as SORT LARGEST FIRST.

HOTBACKUP:

Changes the HotBackup options.

OPTIONAL:

Optionally uses HotBackup.

POWERLOSS:

Restarts after power loss.

ALWAYS:

Always uses HotBackup.

LOCKIMPOSSIBLE:

Uses HotBackup when lock is impossible.

NEVER:

Never uses HotBackup.

CHECKOVERWRITE:

Check that archive with same name exists before storing.

TEMPDRIVE:

Partition for the temporary HotBackup data.

USEVSS:

Specifies the use of the VSS technology.

COPYDISKMETAID:

Specifies copy source disk meta data (such as Mbr ID for mbr disk and Gpt GUID for gpt disk) to target disk.

COPYPARTMETAID:

Specifies copy source partition meta data (such as Gpt GUID for gpt disk) to target partition.

ADDEFIBOOT:

Specifies change EFI menu startup to boot from target disk.

HDDRAWPROCESS:

Specifies the sector-by-sector disk operation mode.

EXCLUDE:

Specifies exclude parameters.

EXCLUDE_WRITER:

Specifies parameters for the exclude writer.

INDEX:

Specifies an index file path.

COPYTESTFILE:

Specifies an copy test xml file path.

BASE_INDEX:

Specifies a base index file path.

RETAIN:

Specifies a retain disk after copy.

COPY_SOURCE_DIR:

Specifies a source directory for the by-files partition copy.

COPY_TARGET_DIR:

Specifies a target directory for the by-files files partition copy.

COPY_MASK:

Specifies a copy mask for the by-files partition copy.

FILES_AUTOINCREMENT:

Specifies auto increment for the file-level backup.

AUTOEJECT:

Specifies auto eject cd after backup.

BOOTCDISO:

Specifies a path to the bootable ISO image.

BOOTCDTYPE:

Specifies a type of the bootable ISO image.

FILENAMES_ENCODING:

Specifies an encoding type for filenames.

VSS2HBSWITCH:

Specifies auto switch between the backup technologies.

VSSATTEMPTS:

Specifies a number of attempts to start the VSS technology.

VSSTIMEOUT:

Specifies timeout between attempts to start.

ENABLEFIXTARGETEFINVRAM:

Specifies autochange EFI boot startup from target GPT disk.

OS:

Returns the current operating system.

DOS, WINNT, WIN2K, WINXP, WIN2K3, WINVISTA, WIN7, WIN8, WIN81, LINUX, MACOS, BLUESCREEN:

Constants for identifying operating systems.

DO, WHILE:

Executes cycles body while clause is 'true'.

PARAMETERS:

Beginning of parameters for the file execution.

ENDPARAMETERS:

End of parameters for the file execution.

USERSTRING:

Asks string from the user and returns it.

STRINGSEQUAL:

Returns 'true' if two strings are equal case sensitive.

STRINGSNOTEQUAL:

Returns 'true' if two strings are not equal case sensitive.

STRINGSCASEEQUAL:

Returns 'true' if two strings are equal case insensitive.

STRINGSCASENOTEQUAL:

Returns 'true' if two strings are not equal case insensitive.

CONTAINSTRING:

Returns 'true' if the first string contains the second.

IMPORT LDM GROUP:

Import foreign dynamic LDM group to currently booted Windows.

LOAD DISK SECTORS:

Loads disk area by sectors from file.

LOAD PARTITION SECTORS:

Loads partition area by sectors from file.

SAVE DISK SECTORS:

Saves disk area by sectors to file.

SAVE PARTITION SECTORS:

Saves partition area by sectors to file.

PUSHNUM:

Pushes number to stack.

PUSHSTR:

Pushes string to stack.

POPNUM:

Pops number from stack. If there is no number in the stack, returns 0.

POPSTR:

Pops string from stack. If there is no string in the stack, returns "".

DIRCONTENTS:

Returns quantity of items (subdirectories and files) in the directory excluding '.' and '..'. Parameter: directory name.

FILECREATETIME:

Returns quantity of seconds from 1 January 1970, 00:00:00 till the file creation time

FILEMODIFYTIME:

Returns quantity of seconds from 1 January 1970, 00:00:00 till the file last modify time

FILEACCESSTIME:

Returns quantity of seconds from 1 January 1970, 00:00:00 till the file last access time

DIRELEMENT:

Returns name of directory's item. Parameters: directory name and number of item.

XFIND:

Recursively finds files using searching criteria. If file or directory were found, block of commands between [BEGIN](#) and [ENDXFIND](#) would process.

BEGIN:

Beginning of commands block, which would be executed for every founded file or directory using [XFIND](#) command.

ENDXFIND:

Ending of commands block, which would be executed for every founded file or directory using [XFIND](#) command.

RESULT:

Specifies name of the string parameter containing name of the founded file or directory on each [XFIND](#) iteration.

RECURSIVE:

Turns on/off the recursive search in [XFIND](#) command.

DIRECTORIES FIRST:

Processes directories before files in the recursive search in [XFIND](#) command.

DIRECTORIES LAST:

Processes directories after files in the recursive search in [XFIND](#) command.

FILES FIRST:

Same as [DIRECTORIES LAST](#).

FILES LAST:

Same as [DIRECTORIES FIRST](#).

RECURSIVE LEVEL:

Specifies the level for the recursive search. Use 0 for unlimited recursive level.

DIRECTORIES:

Turns on/off to report directories as a search result.

FILES:

Turns on/off to report files as a search result.

MASK:

Specifies mask of file or directory for the search criteria.

START:

Specifies the search start point.

BREAK:

Breaks [XFIND](#) execution.

SILENT:

Disables screen output, except [PRINT](#) command (output file is kept intact).

SEARCH:

Specifies the search parameters.

DEEP:

Searches files and directories by using the deep algorithm.

WIDE:

Searches files and directories by using the wide algorithm.

PSR:

Specifies beginning of a PSR command.

BM:

Specifies beginning of a BM command.

PSR_SCENARIO_TYPE:

Specifies type of a PSR scenario.

PSR_SCENARIO_BOOT:

Specifies a PSR BOOT scenario.

PSR_SCENARIO_REBOOT:

Specifies a PSR REBOOT scenario.

PSR_OS_TYPE:

Specifies an operating system used in the PSR mechanism.

PSR_OS_DOS:

Specifies a PTS-DOS operating system.

PSR_OS_LINUX:

Specifies a Linux operating system.

PSR_OS_ALL:

Specifies both PTS-DOS and Linux operating systems.

PSR_OS_WINPE:

Specifies a Windows PE operating system.

PSR_SOURCE_DIR:

Specifies a directory where PSR installation files are kept.

PSR_SOURCE_ISO:

Specifies an ISO image with PSR installation files.

PSR_INSTALL_DIR:

Specifies a directory to install PSR.

TIMEOUT:

Specifies a time period in milliseconds to see the PSR message.

KEY:

Specifies a key to start the PSR boot.

KEY_A:

Specifies “A” on keyboard.

KEY_Z:

Specifies “Z” on keyboard.

KEY_0:

Specifies “0” on keyboard.

KEY_9:

Specifies “9” on keyboard.

KEY_F1:

Specifies “F1” on keyboard.

KEY_F12:

Specifies “F12” on keyboard.

KEY_ESC:

Specifies “Esc” on keyboard.

KEY_MINUS:

Specifies “-” or “_” on keyboard.

KEY_EQUALS:

Specifies “=” or “+” on keyboard.

KEY_BACKSPACE:

Specifies “Backspace” on keyboard.

KEY_TAB:

Specifies “Tab” on keyboard.

KEY_OPENBRACE:

Specifies “[” or “{” on keyboard.

KEY_CLOSEBRACE:

Specifies “]” or “}” on keyboard.

KEY_ENTER:

Specifies “Enter” on keyboard.

KEY_COLON:

Specifies “;” or “:” on keyboard.

KEY_QUOTE:

Specifies “” or “” on keyboard.

KEY_BACKSLASH:

Specifies “\” or “|” on keyboard.

KEY_COMMA:

Specifies “,” or “<” on keyboard.

KEY_DOT:

Specifies “.” or “>” on keyboard.

KEY_SLASH:

Specifies “/” or “?” on keyboard.

KEY_SPACE:

Specifies “SpaceBar” on keyboard.

KEY_HOME:

Specifies “Home” on keyboard.

KEY_END:

Specifies “End” on keyboard.

KEY_PGUP:

Specifies “PgUp” on keyboard.

KEY_PGDN:

Specifies “PgDn” on keyboard.

KEY_INSERT:

Specifies “Ins” on keyboard.

KEY_DELETE:

Specifies “Del” on keyboard.

KEY_UP:

Specifies “UpArrow” on keyboard.

KEY_DOWN:

Specifies “DownArrow” on keyboard.

KEY_LEFT:

Specifies “LeftArrow” on keyboard.

KEY_RIGHT:

Specifies “RightArrow” on keyboard.

KEY_ASTERISK_PAD:

Specifies “Grey*” on keyboard.

KEY_MINUS_PAD:

Specifies “Grey-” on keyboard.

KEY_PLUS_PAD:

Specifies “Grey+” on keyboard.

KEY_LSHIFT:

Specifies “Left Shift” on keyboard.

KEY_RSHIFT:

Specifies “Right Shift” on keyboard.

KEY_LCONTROL:

Specifies “Left Ctrl” on keyboard.

KEY_RCONTROL:

Specifies “Right Ctrl” on keyboard.

KEY_LALT:

Specifies “Left Alt” on keyboard.

KEY_RALT:

Specifies “Right Alt” on keyboard.

KEY_SCRLOCK:

Specifies “ScrollLock” on keyboard.

KEY_NUMLOCK:

Specifies “NumLock” on keyboard.

KEY_CAPSLOCK:

Specifies “CapsLock” on keyboard.

MESSAGE:

Specifies a PSR message.

INSTALL:

Install something.

UNINSTALL:

Uninstall something.

OLDMBR:

Enables to use an old mbr in the BM mechanism.

FTP_USER:

Specifies FTP credentials (username).

FTP_PWD:

Specifies FTP credentials (password).

SFTP_PRVKEYPATH:

Specifies FTP credentials (private key path).

SFTP_PUBKEYPATH:

Specifies FTP credentials (public key path).

SFTP_PASSPHRASE:

Specifies FTP credentials (passphrase).

SMB_USER:

Specifies and SMB user.

SMB_PWD:

Specifies an SMB password.

GETENV:

Gets string parameters from the environment strings.

DISKMODEL:

Returns a disk model string.

DISKID:

Returns a disk MBR id (4 bytes in sector 0 with 0x1B8 offset).

WDADV:

Check that disk supports Western Digital advanced technology.

WDALIGN:

Check that disk sectors is aligned according to Western Digital advanced technology.

CAN_MOVE:

Specifies possibility of the partition move.

CAN_RESIZE:

Specifies possibility of the partition resize.

SERVICE:

Specifies that the partition has a service attribute.

CURDISKNUMBER:

Specifies the currently selected disk number. Returns -1 if no one selected.

DISKNUM:

Specifies the disk number (0-based).

CURPARTITIONNUMBER:

Specifies the currently selected partition number. Returns -1 if no one selected.

MESSAGE:

Skips the custom message box.

MB_OK:

Custom message box with the “OK” button.

MB_OKCANCEL:

Custom message box with the “OK” and “Cancel” buttons.

MB_YESNO:

Custom message box with the “Yes” and “No” buttons.

SCRIPTS_CLS:

Clears the console screen.

EJECT:

Ejects CD/DVD specified by a mount path (Used only under Linux).

FIX_BOOTINI:

Corrects the boot.ini files on the selected disk.

FIX_BCD:

Corrects the BCD files on the selected disk.

FIX_BOOT:

Corrects the boot record on the selected partition.

FIX_GPTEFIBOOT:

Corrects startup in the UEFI mode from MBR to GPT disk.

FIX_GPTEFINVRAM:

Corrects startup in the UEFI mode for a custom GPT disk.

ADDEFIBOOT:

Add new entry for a custom GPT disk to UEFI startup menu.

FIX_AR:

Adjusts OS on the selected disk or partition to boot on virtual hardware.

SURFACETEST:

Test surface on bad blocks of the selected partition or disk.

FIX_P2V:

Converts OS from physical to virtual hardware.

FORMAT:

Specifies a format of the virtual disk:

VMWARE_WORKSTATION,

VMWARE_ESX,

VMWARE_ESX_OVF,

VIRTUAL_PC,

VIRTUAL_SERVER,

HYPER_V,

PARALLELS_WORKSTATION,

VIRTUAL_BOX,

VIRTUAL_BOX_OVF.

DRIVER:

Specifies a path to an ISO image with drivers.

VD_CREATE:

Creates a virtual disk.

VD_CREATE_DIFF:

Creates a differential for the virtual disk.

VD_MERGE_DIFFS:

Merges differentials of the virtual disk.

VD_DELETE:

Deletes a virtual disk.

VD_COPY:

Copies a virtual disk.

VMOPTIONS:

Specifies the virtual machine options group.

VD_CREATE_OPTIONS:

Specifies the virtual drive create options.

VD_CREATE_CONFIG:

Creates a virtual machine configuration file.

VD_BOOTFIX

Fix boot parameters for the virtual drive.

VD_CREATE_CONFIG_OPTIONS:

Specifies the virtual drive options group.

VD_STORE_ITEM_OPTIONS:

Specifies the virtual drive store item options group.

VD_STORE_ITEM:

Selects disk or partition to store in virtual drive container.

VD_STORE_OPTIONS:

Specifies the virtual drive store options group.

VD_STORE:

Store selected items in virtual drive containers.

VD_STORE_INCREMENT_OPTIONS:

Specifies the virtual drive store increment options group.

VD_STORE_INCREMENT:

Store increment of the selected items in virtual drive containers.

VD_RESTORE_TARGET:

Selects disk or partition to restore virtual drive container item to.

VD_RESTORE_OPTIONS:

Specifies the virtual drive restore options group.

VD_ARCHIVE_ITEM:

Selects archive disk, partition or volume to restore from virtual drive container.

VD_RESTORE:

Restore selected items from virtual drive containers.

VD_RESTORE DISKS:

Restore one or several virtual drive archive disks.

VD_RESTORE ASIS:

Restore virtual drive archive to the original location.

VD_RESTORE PARTITION:

Restore single virtual drive archive partition.

VENDOR:

Specifies a vendor of the virtual disk:

PARTIAL,

FLAT,

VMDK,

VHD,

HDD,

VDI.

ADAPTER:

Specifies an adapter of the virtual disk:

IDE,
SCSI,
SATA.

SUBTYPE:

Specifies a subtype of the virtual disk according to [ADAPTER](#):

IDE: PIIX3,
PIIX4,
IC6.
SCSI: BUSLOGIC,
LSILOGIC,
LSILOGICSAS.
SATA: AHCI.

ATTRIBUTES:

Specifies attributes of the virtual disk.

READONLY:

Specifies **read-only** mode.

FORCE:

Specifies **force** mode.

FLAT:

Specifies to treat the disk as a pure flat.

PWD:

Specifies a password.

VD_CONNECT:

Connects a virtual disk.

VD_DISCONNECT:

Disconnects the selected virtual disk connected before by [VD_CONNECT](#).

VD_CONNECT_DRIVES:

Connects a virtual disks.

PATH:

Specifies a path.

BASE:

Specifies a base path.

INDEX:

Specifies an index path.

FILES:

Specifies the by-files operation.

SOURCE_PATH:

Specifies a source path.

DESTINATION_PATH:

Specifies a destination path.

FLAGS:

Specifies flags.

VERSION:

Specifies a version of the virtual machine:

VMWARE_WORKSTATION: 4.0, 5.0, 6.0, 6.5, 7.0.

VMWARE_ESX and VMWARE_ESX_OVF: 4.0.

VIRTUAL_PC: 2007, 7.

VIRTUAL_SERVER: 2005.

HYPER_V: R2.

PARALLELS_WORKSTATION,

VIRTUAL_BOX and VIRTUAL_BOX_OVF: 3.

CONFIG:

Specifies configuration of the virtual machine:

VMX,

VMC,

OVF_09,

OVF_10,

EXP.

NAME:

Specifies a name.

OS:

Specifies an OS:

WIN2000,

WIN2000SRV,

WINXP,

WINXP_64,

WIN2003,

WIN2003_64,

WINVISTA,

WINVISTA_64,

WIN2008,

WIN2008_64,

WIN7,

WIN7_64,

WIN2008R2,

WIN2008R2_64,

WIN8,

WIN8_64,
 WIN8SRV_64,
 WIN81,
 WIN81_64,
 WIN2012R2_64.

Time Zone Codes

Below are listed all the Time Zones codes.

- 0 - "(GMT-12:00) Eniwetok, Kwajalein"
- 1 - "(GMT-11:00) Midway Island, Samoa"
- 2 - "(GMT-10:00) Hawaii"
- 3 - "(GMT-09:00) Alaska"
- 4 - "(GMT-08:00) Pacific Time (US & Canada); Tijuana"
- 5 - "(GMT-07:00) Arizona"
- 6 - "(GMT-07:00) Mountain Time (US & Canada)"
- 7 - "(GMT-06:00) Central Time (US & Canada)"
- 8 - "(GMT-06:00) Mexico City, Tegucigalpa"
- 9 - "(GMT-06:00) Saskatchewan"
- 10 - "(GMT-05:00) Bogota, Lima"
- 11 - "(GMT-05:00) Eastern Time (US & Canada)"
- 12 - "(GMT-05:00) Indiana (East)"
- 13 - "(GMT-04:00) Atlantic Time (Canada)"
- 14 - "(GMT-04:00) Caracas, La Paz"
- 15 - "(GMT-03:30) Newfoundland"
- 16 - "(GMT-03:00) Brasilia"
- 17 - "(GMT-03:00) Buenos Aires, Georgetown"
- 18 - "(GMT-02:00) Mid-Atlantic"
- 19 - "(GMT-01:00) Azores, Cape Verde Is."
- 20 - "(GMT) Greenwich Mean Time; Dublin, Edinburgh, London, Lisbon"
- 21 - "(GMT) Monrovia, Casablanca"
- 22 - "(GMT+01:00) Berlin, Stockholm, Rome, Bern, Brussels, Vienna"
- 23 - "(GMT+01:00) Paris, Madrid, Amsterdam"
- 24 - "(GMT+01:00) Prague, Warsaw, Budapest"
- 25 - "(GMT+02:00) Athens, Helsinki, Istanbul"
- 26 - "(GMT+02:00) Cairo"
- 27 - "(GMT+02:00) Eastern Europe"
- 28 - "(GMT+02:00) Harare, Pretoria"
- 29 - "(GMT+02:00) Israel"
- 30 - "(GMT+03:00) Baghdad, Kuwait, Nairobi, Riyadh"
- 31 - "(GMT+03:30) Tehran"
- 32 - "(GMT+04:00) Moscow, St. Petersburg, Kazan, Volgograd"
- 33 - "(GMT+04:00) Abu Dhabi, Muscat, Tbilisi"
- 34 - "(GMT+04:30) Kabul"

- 35 - "(GMT+05:00) Islamabad, Karachi, Tashkent"
- 36 - "(GMT+05:30) Bombay, Calcutta, Madras, New Delhi, Colombo"
- 37 - "(GMT+06:00) Almaty, Dhaka, Ekaterinburg"
- 38 - "(GMT+07:00) Bangkok, Jakarta, Hanoi"
- 39 - "(GMT+08:00) Beijing, Chongqing, Urumqi"
- 40 - "(GMT+08:00) Hong Kong, Perth, Singapore, Taipei"
- 41 - "(GMT+09:00) Tokyo, Osaka, Sapporo, Seoul"
- 42 - "(GMT+09:30) Adelaide"
- 43 - "(GMT+09:30) Darwin"
- 44 - "(GMT+10:00) Brisbane, Melbourne, Sydney"
- 45 - "(GMT+10:00) Guam, Hobart, Yakutsk"
- 46 - "(GMT+10:00) Port Moresby, Vladivostok"
- 47 - "(GMT+11:00) Solomon Is., New Caledonia"
- 48 - "(GMT+12:00) Fiji, Magadan, Kamchatka, Marshall Is."
- 49 - "(GMT+12:00) Wellington, Auckland"

Locale Codes

Name	Language number	OEM Codepage
Vietnamese	0	1258
Korean (Johab)	0	1361
Swahili	0	437
Hindi	1	437
Urdu	2	437
English	3	437
Farsi	0	720
Arabic	1	720
Greek	0	737
Classic Lithuanian	0	775
Lithuanian	1	775
Latvian	2	775
Estonian	3	775
Malay	0	850
Faeroese	1	850
Afrikaans	2	850
Basque	3	850
Indonesian	4	850
Swedish	5	850
Portuguese	6	850
Norwegian (Nynorsk)	7	850
Norwegian (Bokml)	8	850
Dutch	9	850

Italian	10	850
Icelandic	11	850
French	12	850
Finnish	13	850
Spanish – Modern Sort	14	850
Spanish	15	850
Spanish – Traditional Sort	16	850
English	17	850
German	18	850
Danish	19	850
Catalan	20	850
Slovene	0	852
Albanian	1	852
Slovak	2	852
Serbian (Latin)	3	852
Croatian	4	852
Romanian	5	852
Polish	6	852
Hungarian	7	852
Czech	8	852
Serbian (Cyrillic)	0	855
Turkish	0	857
Hebrew	0	862
Macedonian	0	866
Belarusian	1	866
Ukrainian	2	866
Russian	3	866
Bulgarian	4	866
Thai	0	874
Japanese	0	932
Chinese (Singapore)	0	936
Chinese (Hong Kong)	1	936
Chinese (PRC)	2	936
Korean	0	949
Chinese (Macau)	0	950
Chinese (Taiwan)	1	950

Error Codes

Below is the list of the possible error codes:

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- 0x00000 - Operation completed successfully;
- 0x10001 - Partition parameters exceed the disk limits;
- 0x10002 - Crosslinked partitions;
- 0x10003 - Not enough space available (unable to create a partition of the requested size);
- 0x10004 - No free block is available to create a primary partition;
- 0x10005 - Invalid partition ID;
- 0x10006 - In the root table only (attempt to perform a primary partition operation on a logical disk);
- 0x10007 - The extended partition is not found;
- 0x10008 - Failed to create a partition;
- 0x10009 - An attempt to resize the extended partition out of the available limits;
- 0x1000a - The extended partition already exists;
- 0x10010 - FDISK structure is corrupted;
- 0x10011 - Invalid drive specification;
- 0x10012 - No logical disk defined for this partition;
- 0x10013 - Unknown partition type (unsupported file system);
- 0x10014 - Incorrect partition attributes – incompatible data of partition control blocks;
- 0x10015 - Incorrect cluster size (i.e. 0,>64 or not a degree of 2);
- 0x10016 - Not enough space for a new partition (unable to expand the partition up to the requested size);
- 0x10017 - New cluster is too small - FAT16 disk contains more than 65525 clusters;
- 0x10018 - File system error - file localization error (i.e. because of the crosslinked files). Run CHKDSK to fix it;
- 0x10019 - Not enough space in the new partition to place user data (if you try to decrease the partition containing data too much);
- 0x1001a - Not enough memory;
- 0x1001b - File I/O error. It can occur when the restart data is saved/restored;
- 0x1001c - Partition parameters exceed the available limits;
- 0x1001d - Incorrect restart data – unable to run the restart operation due to the restart data incompatibility;
- 0x1001e - Boot area is too small (i.e. 0 in the ResSect field for FAT16 or less than 32 for FAT32);
- 0x1001f - Root directory size is too small - unable to save all records of the root directory or RootEnts < 16;
- 0x10020 - Bad boot area - disk is inaccessible;
- 0x10021 - Invalid directory structure - directory tree has errors. Run CHKDSK to fix it;
- 0x10022 - Internal error;
- 0x10023 - Failed to create/open file;
- 0x10024 - Not enough space to create an archive file;
- 0x10025 - Invalid archive file;
- 0x10026 - Not for the DEMO-version;
- 0x10027 - Invalid environment type;
- 0x10028 - An unexpected error has occurred during file execution;
- 0x10029 - Network initialization error. Network is inaccessible;
- 0x1002a - Boot Manager or EZ-Drive system is present. Can not install Boot Manager Lite;
- 0x1002b - Estimated CD image-file size exceeds 640Mb;
- 0x1002c - Invalid volume label (in partition deletion or backup operation);
- 0x1002d - Incompatible disks for multicast;
- 0x1002e - Invalid script parameters;
- 0x1002f - Forbidden operation;
- 0x10030 - Invalid SID changer arguments;
- 0x10031 - Invalid size of the partition image;
- 0x10032 - Direct HDC access to the target partition is denied (for Win only);

0x10033 - Disk is too fragmented to apply the size change operation;
0x10034 - Attempt to run an operation on an unknown or 'dead' host;
0x10035 - DOS client is not found;
0x10036 - Invalid password for decryption;
0x10037 - Installation error;
0x10038 - Trial period expired;
0x10039 - Partition is too small for FAT32;
0x1003a - Partition is too big for FAT16;
0x1003b - Unable to restore disk image as a partition;
0x1003c - Unable to restore partition image as a disk;
0x1003d - UNC filename can be created on NT systems only;
0x1003e - Unable to create disk/partition backup on the same disk/partition;
0x1003f - File/directory size is 4 GB;
0x10040 - NTFS decompression error;
0x10041 - Invalid codepage file;
0x10042 - Incompatible version components;
0x10043 - Wipe mask differences found;
0x10044 - Unsupported NTFS version;
0x10045 - There are at least one encrypted file on this partition. Decrypt it first and run again;
0x10048 - Impossible to defragment due to bad blocks;
0x10049 - 64 bit clusters are not supported;
0x1004a - Disk is too big;
0x1004b - Failed to read the dynamic disk info;
0x1004c - Failed to mount partition;
0x1004d - Failed to unmount partition;
0x1004e - Login authentication failed;
0x1004f - File already opened;
0x10050 - No restart-demanding operations are available for the locked partitions on physical disks;
0x10051 - Specified sector size is not supported;
0x10052 - No supported authentication method found;
0x10053 - Public key is not allowed for this user;
0x10054 - Unable to initialize private key from file;
0x10055 - Password authentication failed;
0x10056 - Specified cluster size is not supported;
0x10057 - Please select main archive file to open;
0x10058 - Logon failure: unknown user name or bad password;
0x10059 - No more connections can be made to remote computer;
0x1005a - Access is denied;
0x10090 - Disk I/O error;
0x10091 - Operation is cancelled by the user;
0x10093 - Invalid operation code;
0x10094 - DPMI error;
0x10095 - Operation failed;
0x10096 - Tape i/o error;
0x10097 - Drive not ready error;
0x100a1 - Can't lock source partition;
0x100a2 - Can't lock target partition;

0x100a3 - PM is unable to complete the operation because Windows has performed a write to the source disk. Please make sure that all open programs are closed and press "Retry" to let PM to restart the operation. If the problem persists, use the MS-DOS mode version of PM;

0x100a4 - This operation is not implemented;

0x100a5 - It is not possible to perform the operation because the journal is not empty. Run CHKDSK to replay the journal;

0x11000 - Stub manager already exists;

0x11001 - Stub library has not been initialized;

0x11002 - Previous virtual stub manager exists;

0x11003 - Previous virtual stub manager does not exist;

0x11004 - Next Stub virtual manager exists;

0x11005 - Next Stub virtual manager does not exist;

0x11006 - Bad type of object;

0x11007 - Operation is not associated with the StubMan specified;

0x11008 - Disk is missing;

0x11009 - Disk is not valid;

0x1100a - Invalid function parameter;

0x1100b - System reboot is required to complete the operation;

0x1100c - Search is completed;

0x1100d - Unable to restore the primary partition inside the extended one;

0x1100e - Archive cannot be saved;

0x1100f - Bad computer specified;

0x11010 - Device I/O error;

0x11011 - Service exception;

0x11012 - Invalid buffer;

0x11013 - Busy;

0x11014 - No media;

0x11015 - Illegal server state;

0x11016 - Partial file or operation;

0x11017 - File too long;

0x11018 - Undefined error;

0x11019 - The archive of Windows is not found! You should backup the system before burning;

0x1101a - Parameter memory is too small;

0x1101b - Can't burn locked partition under Windows 9x;

0x1101c - The following CD-ROM does not exist;

0x1101d - Unable to eject CD-ROM;

0x1101e - Information about restart is not found;

0x1101f - You should re-initialize the UFSD subsystem;

0x11020 - Unable to read file;

0x11021 - Invalid header signature in the restart file;

0x11022 - Invalid operation signature in the restart file;

0x11023 - Restart operation is not found;

0x11024 - Invalid signature in the restart location structure;

0x11025 - Unable to write file;

0x11026 - There has been an error during restart;

0x11027 - This image cannot be restored to the current selection;

0x11028 - Engine is already running;

0x11029 - Cannot create the process;

0x1102a - Process returned an error, see GetLastError();

- 0x1102b - The cluster size is too small to change the file system. Try to increase size of the cluster before converting the file system;
- 0x1102c - There is no possibility to restore disk or partition from itself;
- 0x1102d - There is a crosslink with the Backup Capsule;
- 0x1102e - There is no possibility to back up disk or partition to itself;
- 0x1102f - Target disk drive is not found;
- 0x11030 - Partitions structure differs from the archive;
- 0x11031 - Can not modify this dynamic group. Please make sure that all dynamic disks are connected;
- 0x11032 - Cannot perform a task over virtual partition or volume;
- 0x11033 - Cannot retain selected disk;
- 0x11034 - There is no possibility to save dump of the file system to itself;
- 0x11035 - Data block information was not found in index file;
- 0x11036 - Invalid index file path 'cause cannot locate virtual container;
- 0x11037 - Incompatible index file version;
- 0x11038 - Partitions structure of the target hard disk does not correspond to that of the source hard disk;
- 0x11039 - Cannot get CDP bitmap 'cause CDP internal handles were not given;
- 0x1103a - Cannot get CDP bitmap 'cause selected task does not exist. New CDP task was queued;
- 0x1103b - Cannot create CDP increment 'cause given bitmap size is less than partition's bitmap;
- 0x1103c - Cannot convert CDP bitmap 'cause it's bit size is not multiple of bit size of partition's bitmap;
- 0x1103d - Internal CDP error;
- 0x1103e - CDP specific error: Please see logs for more information;
- 0x1103f - Hotpat service is not available;
- 0x11040 - Hotpat service internal error has occurred. Please see logs for more information;
- 0x11041 - Can not modify this dynamic group. Duplicate FDISK structure exists;
- 0x11100 - Unable to open UIM-component;
- 0x11101 - Unknown image-format or failed to open the specified file;
- 0x11102 - UIM failed to complete the specified operation;
- 0x11103 - Cannot defragment the System Windows partition. Please use Rescue Disk to defragment it;
- 0x11104 - Boot Manager already exists;
- 0x11105 - Boot Manager does not exist;
- 0x11111 - VSS specific error: The VSS provider has encountered an internal run-time error;
- 0x11112 - VSS specific error: Please see the system and application event logs for more information;
- 0x11113 - Impossible to initialize VSS for processed volume;
- 0x11114 - Cannot create/release rwbblock, because of old one is using;
- 0x11115 - There is not enough disk space;
- 0x11116 - Could not connect to FTP host;
- 0x11117 - Could not find suitable partition for installing system recovery environment;
- 0x11119 - Cannot install Windows PE environment on bootable or system partition;
- 0x1111a - Cannot install system recovery environment on dynamic disk;
- 0x1111b - Cannot install system recovery environment on disk with non-unique identification;
- 0x1111c - Cannot install system recovery environment on disk without active partition;
- 0x1111d - Driver not found in repository;
- 0x1111e - Hot processing is not available;
- 0x1111f - Insufficient space for installing Boot Manager;
- 0x11120 - The disk is not initialized;
- 0x21121 - The disk has a signature collision with another disk;
- 0x11122 - Volumes are incompatible for this operation;
- 0x11123 - VSS specific error: The VSS provider cannot perform the operation because there is not enough disk space;

0x11124 – Copy disk test failed - facet structure information incompatible;
0x11125 - Operation denied. Random data access is required but not provided;
0x11126 – Cannot get volume UFSD;
0x11127 – FAT partition is not allowed as destination for backup;
0x11128 – There is no possibility to change volume's file system with Windows Vista or later installed;
0x11129 – You're only allowed to change file system of a volume that accomodates Windows OS between FAT and NTFS file systems;
0x1112a – There is no possibility to change file system of the volume with Boot Configuration Data;
0x1112b – There is no possibility to copy virtual disk or partition to itself;
0x1112c – There is no possibility to copy virtual container file to itself;
0x1112d – Can not proceed the operation cause no one partition or disk have been passed on;
0x1112e – Disk is not valid exclude object;
0x1112f – Archive name is not valid;
0x11130 – Selected disk does not support this operation;
0x11131 – Selected partition does not support this operation;
0x11132 – Extended extended partition is not valid object for the operation;
0x11133 – Selected disk is too small for the operation;
0x11134 – Can't create increment to selected archive;
0x11135 – Virtual container vendor is invalid;
0x11136 – Can't open base archive;
0x11137 – Can't merge base archive;
0x11138 – Can't merge selected archive;
0x11139 – The program allows to delete only the latest increment in a backup chain;
0x1113a – You've already created increment to the selected virtual archive. The program allows to create increment only to the initial archive or to the latest increment in a backup chain;
0x1113b – This file is not a virtual disk container;
0x1113c – The dynamic disk has a metadata collision with another disk. Please detach original disk to avoid data loss.;

0x11201 - The operation "Backup" is not available in the trial/demo version;
0x11202 - The operation "Check File System" is not available in the trial/demo version;
0x11203 - The operation "Merge archives" is not available in the trial/demo version;
0x11204 - The operation "Disk copy" is not available in the trial/demo version;
0x11205 - The operation "Disk clear" is not available in the trial/demo version;
0x11206 - The operation "Create partition" is not available in the trial/demo version;
0x11207 - The operation "Delete partition" is not available in the trial/demo version;
0x11208 - The operation "Set flags" is not available in the trial/demo version;
0x11209 - The operation "Format partition" is not available in the trial/demo version;
0x1120a - The operation "Modify partition" is not available in the trial/demo version;
0x1120b - The operation "Resize partition" is not available in the trial/demo version;
0x1120c - The operation "Copy partition" is not available in the trial/demo version;
0x1120d - The operation "Mount partition" is not available in the trial/demo version;
0x1120e - The operation "Undelete partition" is not available in the trial/demo version;
0x1120f - The operation "Convert File System" is not available in the trial/demo version;
0x11210 - The operation "Change cluster size" is not available in the trial/demo version;
0x11211 - The operation "Change root size" is not available in the trial/demo version;
0x11212 - The operation "Change boot size" is not available in the trial/demo version;
0x11213 - The operation "Make partition primary" is not available in the trial/demo version;
0x11214 - The operation "Make partition logical" is not available in the trial/demo version;

- 0x11215 - The operation "Set label" is not available in the trial/demo version;
- 0x11216 - The operation "Wipe" is not available in the trial/demo version;
- 0x11217 - The operation "Set partition serial number" is not available in the trial/demo version;
- 0x11218 - The operation "Check File System" is not available in the trial/demo version;
- 0x11219 - The operation "Surface test" is not available in the trial/demo version;
- 0x1121a - The operation "Set partition ID" is not available in the trial/demo version;
- 0x1121b - The operation "Change SID" is not available in the trial/demo version;
- 0x1121c - The operation "Set primary slots" is not available in the trial/demo version;
- 0x1121d - The operation "Restore" is not available in the trial/demo version;
- 0x1121e - The operation "Move partition" is not available in the trial/demo version;
- 0x1121f - The operation "Convert Dynamic Disk to Basic" is not available in the trial/demo version;
- 0x11221 - The operation "File System Conversion" is not available in the trial/demo version;
- 0x11400 - Different cluster size;
- 0x11401 - Unable to merge due to different NTFS parameters;
- 0x11402 - Different versions;
- 0x11403 - Restoring over encrypted partition is not allowed. Please delete target partition first;

- 0x12000 - Failed to modify the protected partition;
- 0x12001 - No restart.log found;
- 0x12002 - Operation is invalid for this object.
- 0x12003 - Operation has been cancelled;
- 0x12004 - Path is invalid;
- 0x12005 - Requested action cannot be done from this CD. Please insert the main disc;
- 0x12006 - Not enough free space on the temp-drive for HotBackup. Operation aborted;
- 0x12007 - Trial version cannot be rebooted;
- 0x12008 - Failed to make a bootable CD with the specified options;
- 0x12009 - This version cannot be rebooted;
- 0x1200a - HotBackup service is not available;
- 0x1200b - Unable to open HotBackup service;
- 0x1200c - I/O error during HotBackup;
- 0x1200d - HotBackup session is already in progress;
- 0x1200e - Internal error during HotBackup;
- 0x1200f - Dynamic disk cannot be used as target during the disk copy operation;
- 0x12010 - Wrong format of the restart log file;
- 0x12011 - File "disk.pbf" or "system.pbf" is not found on the CD;
- 0x12012 - Backup Capsule has not been found on any hard disk;
- 0x12013 - Can create a mask for the wipe operation;
- 0x12014 - Windows Server is not supported;
- 0x12015 - Restart is needed to complete operations under 64-bit Windows;
- 0x12016 - VSS: Cannot read volume data;
- 0x12017 - Invalid registry hive;
- 0x12018 - Cannot restore from network share;
- 0x12019 - Restart is needed to complete operations in the PSR mode (reboot to DOS or Linux);
- 0x1201b - Virtual image is already connected;
- 0x1201c - Unknown virtual image type;
- 0x1201d - Bad virtual image size;
- 0x1201e - Cannot back up to network share;
- 0x1201f - Parent file is already open;
- 0x12020 - Cannot open parent disk file;

- 0x12021 - Partition is too big for the selected file system;
- 0x12022 - Device limit overrun;
- 0x12023 - Bad signature of the archive index file;
- 0x12024 - Wrong backup index file;
- 0x12025 - Incorrect choice archive;
- 0x12026 - This file is not archive file;
- 0x12027 - Can not update index file. Insufficient block space;
- 0x12028 - Can not set reference GUID;
- 0x12029 - Is not allowed to increment this archive;
- 0x1202a - Can't delete partition protected by bitlocker. Please remove it first manually;
- 0x1202b - Bitlocker-encrypted partition is not successfully unlocked;

Command Line Options

- <input file> - specifies the input file. (Default: psi.in).
- h, --help - shows usage screen and exits.
- v, --version - shows version number and exits.
- p:<parameter>=<value> - specifies parameter for script.
The value must be in the decimal format.
- s:<parameter>="<value>" - specifies string parameter for script.
- g, --graph - specifies to run scripts in the graphical mode.
- s, --silent - silent output. (Default: disable).
- n, --nochs - don't use CHS geometry. (Default: disable).
- Wno - disables all warnings. (Default: enable).
- errnum <number> - specifies number of errors to display.
- verbose - verbose output. (Default: disable).
(Default: disable).
- input "<script>" - specifies script from the command line.
- dontchecklocks - disables checkup for locked partitions.
- logsnamepostfix - specifies suffix appended to log file names.
- forcereboot - forced reboot (use with caution).
- rebootonconfirm - reboots only on confirmation.
- cutprogress - outputs the progress info in the reduced format.
- o <output file> - specifies output file. (Default: psi.out).
- oa <output file> - specifies output file to append. (Default: psi.out).

To turn off writing output file, use: -o none

Simple Example

```
settings
    oemcodepage 850           // Setting codepage
    langnumber 17             // Setting language number
endsettings

confirm off                  // Turn off questions
```

```

print "Backup partition"           // Print message to screen
print ""                          // Print new line
select disk 1
select partition 1
img="ufsd://(select)/HDD0_part_1.pbf" // Select stored filename
select partition 1
options
    cmp=9
    pwd="HDD0_part2"
    label="Test Archive"          // Define some options for store
store                             // Virtual store

call check_errors                 // Call procedure

print "Applying"                 // Print message
print ""
apply all                         // Apply all operations

call check_errors                 // Call procedure

goto out                          // Go to "out" label

check_errors:                     // Procedure
    if (errorcode(1) != 0)        // Compare last error with success
    then                          // If there was an error
        print "Some error occured: " // Print message
        sterror(errorcode(1))      // Print error description
        print ""
        print "Exiting"           // Print message
        print ""
        exit(errorcode(1))        // Exit from the script
    endif
endcall                           // End of the procedure

out:                               // Label "out"
print "*****OK*****"
print ""
exit(0)                           // Exit from the script

```