

Variables		
[define]	variable	Define
[define]	variable =	Assignment
[define]	variable :=	= recursively expanded
[define]	variable ::=	:=,::= simply expanded
[define]	variable +=	Append
[define]	variable ?=	Only if not exists
endif		Multi-line closure
undefine	variable	Undefinition
override	var-assign	Explicitly overrides all
export		All variables to child process
export	<var var-assign>	To child process
Unexport	variable	Not export
private	var-assign	Don't inherited by prerequisites

Directives

include file	Inclusion
<-include sinclude> file	
vpath [pattern] [path]	Search paths specification removal
<ifdef ifndef> variable	Value not empty (It doesn't expand)
<ifeq ifneq> (a,b)	Equality
<ifeq ifneq> "a" "b"	
<ifeq ifneq> 'a' 'b'	
else	Else statement
endif	Closure

Functions

\$(subst <i>f</i> , <i>to</i> , <i>t</i>)	Replace <i>f</i> with <i>to</i> in <i>t</i>
\$(patsubst <i>p</i> , <i>r</i> , <i>t</i>)	Replace words matching <i>p</i> with <i>r</i> in <i>t</i>
\$(t:p=r)	
\$(strip <i>s</i>)	Remove excess spaces from <i>s</i>
\$(findstring <i>s</i> , <i>t</i>)	Locate <i>s</i> in <i>t</i>
\$(filter <i>p</i> ..., <i>t</i>)	Words in <i>t</i> that match one <i>p</i> words
\$(filter-out <i>p</i> ..., <i>t</i>)	Words in <i>t</i> that <i>don't</i> match <i>p</i> words
\$(sort <i>l</i>)	Sort <i>l</i> lexicographically, removes dup.
\$(word <i>n</i> , <i>t</i>)	Extract the <i>n</i> th word (one-origin) of <i>t</i>
\$(words <i>t</i>)	Count the number of words in <i>t</i>
\$(wordlist <i>t</i> , <i>s</i> , <i>e</i>)	List of words in <i>t</i> from <i>s</i> to <i>e</i>
\$(firstword <i>ns</i> ...)	Extract the first word of <i>ns</i>
\$(lastword <i>ns</i> ...)	Extract the last word of <i>ns</i>
\$(dir <i>ns</i> ...)	Directory part of each file name
\$(notdir <i>ns</i> ...)	Non-directory part of each file name
\$(suffix <i>ns</i> ...)	Deletes until the last '.' in every <i>ns</i>
\$(basename <i>ns</i> ...)	Base name (no suffix) in every <i>ns</i>
\$(addsuffix <i>sf</i> , <i>ns</i> ...)	Append <i>sf</i> to each word in <i>ns</i>
\$(addprefix <i>pf</i> , <i>ns</i> ...)	Prepend <i>pf</i> to each word in <i>ns</i>
\$(join <i>l1</i> , <i>l2</i>)	Join two parallel lists of words
\$(wildcard <i>p</i> ...)	Find files matching a pattern (<i>not</i> '%')
\$(realpath <i>ns</i> ...)	Absolute name (no ., .., nor symlinks)
\$(abspath <i>ns</i> ...)	Absolute name (no. or ..)Preserves symlinks
\$(error <i>t</i> ...)	make fatal error with the message <i>t</i>
\$(warning <i>t</i> ...)	make warning with the message <i>t</i>
\$(info <i>t</i> ...)	make info with the message <i>t</i>
\$(shell <i>c</i>)	Execute a shell cmd, returns output

\$(origin <i>v</i>)	Origin of variable <i>v</i>
\$(flavor <i>v</i>)	Flavor of variable <i>v</i>
\$(foreach <i>v</i> , <i>w</i> , <i>t</i>)	Evaluate <i>t</i> with <i>v</i> bound to each word in <i>w</i> , and concatenate the results
\$(if <i>c</i> , <i>then-part</i> [, <i>else-part</i>])	Evaluates <i>c</i> ; if it's non-empty substitute by <i>then-part</i> otherwise by <i>else-part</i>
\$(or <i>c1</i> [, <i>c2</i> [, <i>c3</i> ...]])	Evaluate each <i>cN</i> ; substitute the first non-empty expansion.
\$(and <i>c1</i> [, <i>c2</i> [, <i>c3</i> ...]])	Evaluate each <i>cN</i> ; if any is empty substitution is empty. Expansion of the last <i>condition otherwise</i>
\$(call <i>v</i> , <i>p</i> , ...)	Evaluates <i>v</i> replacing any references to \$(1), \$(2) with the first, second, etc. <i>p</i> values
\$(eval <i>t</i>)	Evaluate <i>t</i> and read the results as makefile commands
\$(file <i>op</i> <i>f</i> , <i>t</i>)	Open the file <i>f</i> using mode <i>op</i> and write <i>t</i> to that file
\$(value <i>v</i>)	Evaluates <i>v</i> , with no expansion

Special targets (T: As target, P: As prerequisite)

.PHONY	T: make runs it's prereq. unconditionally
.SUFFIXES	T: list of suffixes used in checking for suffix rules
.DEFAULT	T: Used for any target for which no rules are found
.PRECIOUS	P: Target and intermediate files are not deleted
.INTERMEDIATE	P: treated as intermediate files
.SECONDARY	P: target is intermediate but not deleted
.SECONDEXPANSION	T: prerequisites expand twice
.DELETE_ON_ERROR	T: make will delete the target of a rule if it has changed and its recipe exits with a nonzero exit status
.IGNORE	P: Ignore errors T: Ignore all errors
.LOW_RESOLUTION_TIME	P: Considered as generates low resolution time stamps
.SILENT	P: Muted T: Mute all
.EXPORT_ALL_VARIABLES	T: as export
.NOTPARALLEL	T: make will run serially
.ONESHELL	As target: All lines of a recipe runs on one shell
.POSIX	As target: makefile will be parsed and run in POSIX-conforming mode

Special variables

MAKEFILE_LIST	List of parsed makefiles
.DEFAULT_GOAL	Defines the default target (instead the first)
MAKE_RESTARTS	Number of restarts
MAKE_TERMOUT	stdout terminal
MAKE_TERMERR	stderr terminal
.RECIPEPREFIX	Recipe prefix instead of tab
.VARIABLES	List of global variable names (Read only)

.FEATURES	List of features (Read only)
.INCLUDE_DIRS	Makefiles directories inclusion
MAKEFILES	Makefiles to be read
VPATH	Directory search path
SHELL	System default command interpreter
MAKESHELL	(MS-DOS only) command interpreter
MAKE	Name with which make was invoked
MAKE_VERSION	Version number of the GNU make program
MAKE_HOST	Host that GNU make was built to run on
MAKELEVEL	Number of levels of recursion
MAKEFLAGS	Flags given to make
GNUMAKEFLAGS	Other flags parsed by make
MAKECMDGOALS	Targets given to make
CURDIR	Absolute pathname of the CWD
SUFFIXES	Suffixes before make
.LIBPATTERNS	Naming of the libraries make searches for

Automatic variables

\$@	\$(@D)	\$(@F)	Name of the target
\$\$	\$(%D)	\$(%F)	Target member name, when target is an archive member
\$<	\$(<D)	\$(<F)	First prerequisite
\$\$?	\$(?D)	\$(?F)	Prerequisites newer than the target
\$\$^	\$(^D)	\$(^F)	Names of all the prerequisites, with spaces between them. \$\$^ omits duplicates
\$\$+	\$(+D)	\$(+F)	
\$\$*	\$(*D)	\$(*F)	Implicit rule stem

Rules and prerequisites

target: ps oops recipes	<i>recipes</i> for the <i>target</i> file will run if any <i>ps</i> is modified or rebuilt. <i>oops</i> are treated as <i>ps</i> but they will not trigger the <i>recipe</i> if those are modified.
<pf>%<sf>: ps oops recipes	Implicit rule. Same as explicit. % represents any string. Matching of % is called stem.
target-pat: var-assign	Target/pattern specific variables