BLAISE
COMPUTING
INC.

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Thank you for your interest in Blaise Computing Inc. Blaise Computing produces productivity tools for system developers, providing the software and support to take advantage of the power of the IBM Personal Computer and XT. We support both Pascal and C; probably the most powerful general purpose languages available in the DOS environment.

TOOLS allows you to take advantage of the machine dependent features of the IBM PC/XT as well as providing other important functions. Complete screen access, extensive string handling and a general gate to the BIOS functions are just some of the features provided. TOOLS 2 provides the capability to utilize the features and power of DOS 2.0 without resorting to assembly language programming. TOOLS 2 provides extended memory allocation, program and DOS command execution, DOS file handling and a number of other utilities. The C version of TOOLS 2 also supports interrupt processing. With these functions, you can write general interrupt service routines entirely in C.

VIEW MANAGER is an extensive screen management system. With VIEW MANAGER you can interactively design and create screens, and then easily access them using simple procedure calls. C support for VIEW MANAGER will be available early in 1983.

All Blaise Computing products are carefully crafted to not only provide you with important functions, but also to give you a model of program development in each language. C and Pascal versions are written in their respective languages to take advantage of the strengths of each, and to work harmoniously with your applications. All source code (including the necessary assembler routines) comes with TOOLS and TOOLS 2. The source code for the VIEW MANAGER library procedures is also available at additional cost. The license agreement for all Blaise Computing products allows you to distribute your developed applications without any additional royalty costs.

Blaise Computing Inc. supports its products with telephone support and a quarterly newsletter. Routine updates are available at a nominal cost. We can also provide the MS-Pascal compiler and Microsoft C compiler at below list price, and have technically competent support.

Enclosed please find more detailed information about our products and an order form. Please feel free to call if you have any other questions.

PASCAL TOOLS

The following list provides a brief description of the functions and procedures which comprise Pascal TOOLS. All routines are written in Pascal except for a general BIOS gate, which is written in Macro Assembler. All the procedures are carefully documented and written to take specific advantage of the features of Pascal.

String Functions

leftzz	Extract the left most characters of a string
rightzz	Extract the right most characters of a string
substrzz	Extract a substring
midstrzz	Insert one string in the middle of another
fillzz	Construct a string of repeated characters
indexzz	Return the starting position of one string within another string
verifyzz	Verify that all characters of a string appear in another string
xlatezz	Translate a string using a string table
cvtzz	Convert a string using a general conversion code
ivalzz	Convert a numeric string into its value
datezz	Return a full date string including the day of the week
timezz	Return the time of day as a string (for example, 11:59 AM)

Screen Handling

resetvv	Initialize the screen video attributes
modevv	Return the screen mode, including which adapter is currently in use
pagsetvv	Set the current display page
actpagvv	Select the active display page
scrollvv	Scroll lines of text within a specified window
clsvv	Clear the screen
cursetvv	Set the cursor position
curposvv	Return the cursor position
cursorvv	Set the cursor size
attribvv	Set display attributes or colors
readvv	Read a character and display attributes
writevv	Write copies of a character without changing the display attributes
scnsrtvv	Write to a display page using standard TTY format

Fast Forms Utilities

alarmuu	Sound the screen beeper
abortuu	Terminate the program and return with a message
errmsguu	Display a message at a specified position on the screen with a specified display attribute
clrmsguu	Clear a screen message
inkeyuu	Wait unit a key is depressed, and then return the character or extended character code.
pauseuu	Display a message and suspend processing.

Graphics Interface Functions

initgg	Initialize graphics or text mode and set border and background colors
ptwritgg	Write a point with a specified color
ptreadgg	Read the color of a specified point
hsetgg	Set the home plotting position
hreadgg	Return the coordinates of the position
linegg	Draw a line between two points using a color
amovegg	Draw a line using absolute coordinates
rmovegg	Draw a line using relative coordinates

Application Functions

pyesnoxx	Display a prompt and accept a YES/NO response
prdnumxx	Display a prompt and accept a numeric response
prdlinxx	Display a prompt and accept a text response
comlinxx	Return the last DOS command line
cparsexx	Parse a command line and return the next token

Basic Intrinsic Functions

minbb	Return the minimum of two integers
maxbb	Return the maximum of two integers
signbb	Return the sign of an integer
powerbb	Extended exponentiation function
rndbb	Pseudo random number generator

Pascal TOOLS INCLUDES

Pascal TOOLS is delivered on standard DOS diskettes and includes **all source code** as well as the compiled unit object modules which can be used immediately. The routines are supplied as six separately compiled units, and interface files are included to let you use the units without modification if you wish.

A comprehensive User Reference Manual documents each routine, and examples are given showing their use. Included are complete sample Pascal programs using TOOLS.

Pascal TOOLS requires the IBM Pascal or Microsoft MS-Pascal Compiler,and and any version of DOS. TOOLS can be used on the IBM PC/XT or any hardware compatible machine.

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PASCAL TOOLS 2

The following list provides a brief description of the functions and procedures which comprise Pascal TOOLS 2. All routines are written in Pascal except for a general DOS gate, which is written in Macro Assembler. All the routines are carefully documented both in the source files and in the Reference manual. The package is designed and written to take specific advantage of the features of Pascal.

Support Utilities

initgg	Initialize registers in preparation for calling the general DOS gate
dos	General DOS gate allows any DOS function to be accessed.

Program Control and Memory Management

allocmm	Allocate a block of memory beyond the normal data space
freemm	Free a previously allocated memory block
setblkmm	Adjust the size of an allocated memory block
shrinkmm	Release all memory not needed for the program
execmm	Load and execute another program
doscmdmm	Execute a DOS command
exitmm	Terminate a program and set an error code
waitmm	Inspect the return code set by pcexit or pcresext

DOS File Handling Functions

creatff	Create and open a file with the specified pathname
openff	Open a file
closeff	Close a file
setatrff	Inspect or set file attributes
seekff	Position the file pointer
readff	Read data from a file to a specified buffer
writeff	Write data from a buffer to a file
deleteff	Delete a file
retdtaff	Return the Disk Transfer Area location
setdtaff	Set the Disk Transfer Area location

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Directory Maintenance

mkdircc	Create a new subdirectory
rmdircc	Remove a subdirectory
chdircc	Change the current directory
durdircc	Return the path of the current directory
sfirstcc	Find file information for the first file name matching specified requirements
snextcc	Return information for the next matching file name
renamecc	Rename a file
stampcc	Return or alter the file date/time stamp

DOS System Information

getdatqq	Return the system date
gettimqq	Return the system time
setdatqq	Set the system date
settimqq	Set the system time
getdosqq	Return the DOS Version number
diskspqq	Return disk space allocation for a specified drive

Pascal TOOLS 2 INCLUDES

Pascal TOOLS 2 is delivered on standard DOS diskettes and includes **all source code** as well as the separately compiled units which can be used immediately. Interface files are included to let you use the units without modification if you wish.

A comprehensive User Reference Manual documents each routine, and examples are given showing their use. Included are complete sample Pascal programs using TOOLS 2 illustrating how TOOLS 2 can be used to develop applications.

Pascal TOOLS 2 requires the IBM Pascal or Microsoft MS-Pascal Compiler, and Version 2.0 of DOS. Although C TOOLS 2 does not require C TOOLS, the naming and coding conventions are similar to make using both packages easy. TOOLS 2 can be used on the IBM PC/XT or any hardware compatible system.

C TOOLS

The following list provides a brief description of the functions which comprise C TOOLS. All routines are written in C except for a general BIOS gate, an extended DOS function and a memory move procedure, which are written in Macro Assembler. All the functions are carefully documented and written to take specific advantage of the features of C.

String Functions

stcleft	Extract the left most characters of a string
stcright	Extract the right most characters of a string
stcsub	Extract a substring
stcmid	Insert one string in the middle of another
stcfill	Construct a string of repeated characters
stsindex	Return the starting position of one string within another string
stschind	Return the position of a character in a string
stsverfy	Verify that all characters of a string appear in another string
stpxlate	Translate a string using a string table
stpcvt	Convert a string using a general conversion code
stsline	Return a line of text from the console without echo
stsdate	Return the system date, both in numeric form and as a string including the day of the week
ststime	Return the system time, both in numeric form and as a string (for example, 11:59 AM)

Screen Handling Functions

screset	Initialize the screen video attributes
scmode	Return the screen mode, including which adapter is currently in use
scpage	Set the current display page
scapage	Select the active display page
scscroll	Scroll lines of text within a specified window
scclear	Clear the screen
sccurset	Set the cursor position
sccurpos	Return the cursor position
sccursor	Set the cursor size
scattrib	Set display attributes or colors
scread	Read a character and display attributes
scwrite	Write copies of a character without changing the display attributes
scttywrt	Write to a display page using standard TTY format
scdspmsg	Display a message at a specified position on the screen with a specified display attribute
scclrmsg	Clear a screen message

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General Utility Functions and Macros

utslmove	Move bytes from one location to another. Any memory location can be used.
utabort	Terminate the program and return with a message
utinkey	Wait unit a key is depressed, and then return the character or extended character code.
utpause	Display a message and suspend processing until a key is depressed.
utrnd	Pseudo random number generator
uthibyte	(Macro) Return the high byte
utlobyte	(Macro) Return the low byte
utbyword	(Macro) Construct a "word" from two bytes
utoutrng	(Macro) Check the range of a numeric
utsign	(Macro) Return the sign of a numeric
utalarm	(Macro) Sound the screen beeper
utskip	(Macro) Display a carriage return/line feed

Graphics Interface Functions

grinit	Initialize graphics or text mode and set border and background colors
grptwrit	Write a point with a specified color
grptread	Read the color of a specified point
grline	Draw a line between two points using a color
gramove	Draw a line using absolute coordinates
grrmove	Draw a line using relative coordinates

Application Functions

apyesno	Display a prompt and accept a YES/NO response
aprdnum	Display a prompt and accept a numeric response
aprdtxt	Display a prompt and accept a text response
apcomlin	Return the entire DOS command line rather than a token at a time.

C TOOLS INCLUDES

C TOOLS is delivered on standard DOS diskettes and includes **all source code** as well as a C TOOLS library which can be used immediately. The functions have been separately compiled so that programs include only the functions they need. Header files let you include function, variable and macro declarations easily into your C programs.

A comprehensive User Reference Manual documents each function, and examples are given showing their use. Included are complete sample C programs using TOOLS.

C TOOLS requires the Microsoft (Lattice) C Compiler or the Computer Innovations C86 Compiler, and and any version of DOS. TOOLS can be used on the IBM PC/XT or any hardware compatible machine.

C TOOLS 2

The following list provides a brief description of the functions which comprise C TOOLS 2. All routines are written in C except for a general DOS gate, and the interrupt function support procedures, which are written in Macro Assembler. All the functions are carefully documented both in the source files and in the Reference manual. The package is designed and written to take specific advantage of the features of C.

Support Utilities

utinit	Initialize register structure in preparation for calling a DOS function
utslmove	Move data from one memory location to another using the segment and offset addresses
dos	General DOS gate allows any DOS function to be accessed.

Program Control and Memory Management

pcalloc	Allocate a block of memory beyond the normal data space
pcfree	Free a previously allocated memory block
pcsetblk	Adjust the size of an allocated memory block
pcshrink	Release all memory not needed for the program
pcexec	Load and execute another program
pcdoscmd	Execute a DOS command
pcenvchk	Return an environment parameter
pcexit	Terminate a program and set an error code
pcresext	Terminate a program but stay resident
pcwait	Inspect the return code set by pcexit or pcresext
pcsetvec	Set an interrupt vector
pcretvec	Return an interrupt vector
pcintoff	Disable maskable interrupts
pcinton	Enable maskable interrupts
pcsetisr	Define an interrupt service routine
pcinvint	Invoke a software interrupt

DOS File Handling Functions

flcreate	Create and open a file with the specified pathname
flopen	Open a file
flclose	Close a file
flsetatr	Inspect or set file attributes
flseek	Position the file pointer
flread	Read data from a file to a specified buffer
flwrite	Write data from a buffer to a file
fldelete	Delete a file
flretdta	Return the Disk Transfer Area location
flsetdta	Set the Disk Transfer Area location

Directory Maintenance

drmkdir	Create a new subdirectory
drrmdir	Remove a subdirectory
drchdir	Change the current directory
drcurdir	Return the path of the current directory
drsfirst	Find file information for the first file name matching specified requirements
drsnext	Return information for the next matching file name
drrename	Rename a file
drstamp	Return or alter the file date/time stamp

DOS Information

qygetdat	Return the system date
qygettim	Return the system time
qysetdat	Set the system date
qysettim	Set the system time
qydosver	Return the DOS Version number
qydisksp	Return disk space allocation for a specified drive

C TOOLS 2 INCLUDES

C TOOLS 2 is delivered on standard DOS diskettes and includes **all source code** as well as a C TOOLS 2 library which can be used immediately. The functions have been separately compiled so that programs include only the functions they need. Header files let you include function, variable and macro declarations easily into your C programs.

A comprehensive User Reference Manual documents each function, and examples are given showing their use. Included are complete sample C programs using TOOLS 2 illustrating how TOOLS 2 can be used to develop applications.

C TOOLS 2 requires the Microsoft (Lattice) C Compiler and Version 2.0 of DOS. Although C TOOLS 2 does not require C TOOLS, the naming and coding conventions are similar to make using both packages easy. TOOLS 2 can be used on the IBM PC/XT or any hardware compatible system.

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