COMMODORE 64 QUICK REFERENCE CARD

CHARLE WARLANGE

Name Panae Type

Pagi XY = 1.70141183E + 38= 2.93873588F-39 YY% = 32767

Integer String XY\$ 0 to 255 characters

X is a letter (A-Z), Y is a letter or number (0-9). Variable names can be more than 2 characters, but only the first two are recognizod

ARRAY VARIABLES

Type Name Single Dimension YY/5\ Two-Dimension YY/5 5 Three Dimension XY(5.5.5)

Arrays of up to eleven elements (subscripts 0-10) can be used where needed. Arrays with more than eleven elements need to he DIMensioned

ALGERDAIC OPERATIONS

= Assians value to variable

Negation

↑ Exponentiation

Multiplication Division

Addition

Subtraction

RELATIONAL AND LOGICAL OPERATORS

Faual

/-

~> Not Equal To < Less Than

Greater Than

Less Than or Equal To **\-**Greater Than or Equal To

NOT Logical "Not" AND Logical "And"

Logical "Or"

Expression equals 1 if true, 0 if false.

SYSTEM COMMANDS

LOAD "NAME" Loads a program from tape SAVE "NAME" Saves a program on tape LOAD "NAME",8 Loads a program from disk SAVE "NAME" 8 Saves a program to disk VERIFY "NAME" Verifies that program was SAVEd without erors

RIIN Executes a program

RUN XXX Executes a program starting at line XXX

STOP Halts execution FND Ends Execution

CONT Continues program execution from

> line where program was halted Returns contents of memory

PEEK(X) location X

POKE X.Y Changes contents of location X to

USR(X)

value Y SYS xxxxx Jumps to execute a machine language

program starting at xxxxx

WAIT X Y 7 Program waits until contents of

location X, when EORed with Z and

ANDed with Y, is nonzero

Passes value of X to a machine

language subroutine

EDITING AND FORMATTING COMMANDS

LIST Lists entire program LIST A-B Lists from line A to line B

REM Message Comment message can be listed but is ignored during program execution TAB(X) Used in PRINT statements. Spaces X

positions on screen

SPC(X) DDINTS V blanks on line POS(X) Poturne current cursor position CLR/HOME

Positions cursor to left corner of

SHIET OLD /HOME Clears screen and places cursor in

"Home" position SHIET INST/DEL Inserts space at current cursor

position INST/DEL

Position CTDI When used with numeric color key

> selects text color. May be used in PRINT statement

CRSR Keys Moves cursor up, down, left, right

on screen

Commodore Key When used with SHIFT selects

between upper/lower case and graphic display mode.

When used with numeric color key.

selects optional text color

APPAYS AND STRINGS

DIM A(Y Y 7) Sets maximum subscripts for A:

reserves space for (X+1)*(Y+1)*(Z+1) elements starting at A(0,0,0)

IEN/Y¢ Returns number of characters in X\$

STR\$(X) Returns numeric value of X converted to a string

VAL(X\$) Returns numeric value of X\$.

un to first non-numeric character CHP\$(Y)

Returns ASCII character whose code ie Y

ASC(X\$) Returns ASCII code for first

character of X\$

Returns leftmost X characters of A\$ LEFT\$(A\$,X) RIGHT\$(A\$.X) Returns rightmost X characters of A\$

Returns Y characters of A\$ MID\$(A\$,X,Y)

starting at character X

INPUT/OUTPUT COMMANDS

PRINTs "?" on screen and waits for INPUT A\$ or A user to enter a string or value

INDIT "ARC" A PRINTs message and waits for user

to enter value. Can also INPUT A\$ GET AS or A

Waits for user to type one character value, no RETURN needed

DATA A."B".C Initializes a set of values that

can be used by READ statement

READ AS or A Assigns next DATA value to A\$ or A RESTORE Resets data pointer to start

READing the DATA list again

PRINT "A= ":A

PRINTs string "A=" and value of A. ":" suppresses spaces

"." tabs data to next field

PROGRAM FLOW

RETURN

GOTO X Branches to line X

IF assertion is true THEN execute IE A-2 THEN 10

following part of statement. IF false, execute next line number

FOR A =1 TO 10 **Executes all statements between FOR**

STEP 2: NEXT and corresponding NEXT, with A

going from 1 to 10 by 2. Step size

is 1 unless specified

Defines end of loop. A is optional GOSUB 2000

Branches to subroutine starting at line 2000

Marks end of subroutine. Returns to

statement following most recent

GOSLIR

ON X GOTO A,B Branches to Xth line number on list If Y = 1 branches to A etc.

ON X GOSUB A.B. Branches to subroutine at Xth line

number in list