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Over ten years ago, Borge Christensen started development of a programming language to replace BASIC. The result is known today as COMAL, a modern, powerful, modular and structured way of controlling a computer! COMAL was developed on the PET/CBM series of Commodore computers but, the two versions for the C-64 have put COMAL "on the map". The disk version (0.14) is freely copyable and has spread around the world through most user groups. Hardware versions (2.0) are more powerful and complete.

If you want to manipulate your computer successfully, consider using a language which has the ability to do so using built-in controls and helpful features. In ONE package COMAL has AUTO-numbering, AUTO-indenting, IMMEDIATE syntax checking, LONG variable names, SMART error reporting, and MERGing to make your efforts more enjoyable (FUN, not a headache!).

More efficient and complete structures like the CASE-WHEN-OTHERWISE or IF-THEN-ELIF-ELSE give you control you've never dreamed of, if BASIC has its grip on you. Program blocks (PROCs, FUNCs), proper beginning-ending indicators, indentation (one statement per line), and upper-lower case listings make for very readable, understandable programs. C-64 owners now have full control of sprites and sound using COMMANDS (not PEEKs and POKEs)! Turtle graphics rivalling LOGO's are included!

The TPUG COMAL Chapter was formed to get COMAL users together as a self-help group. TPUG has printed its first book, the "COMAL Reference Guide" by Borge Christensen (a hot seller!). The COMAL Users Group's library has been donated to TPUG with WELL over one thousand programs, and it grows continually! This set of program listings was compiled by Len Lindsay (CUG-USA), and the disks renamed with TPUG designations by your COMAL librarian.
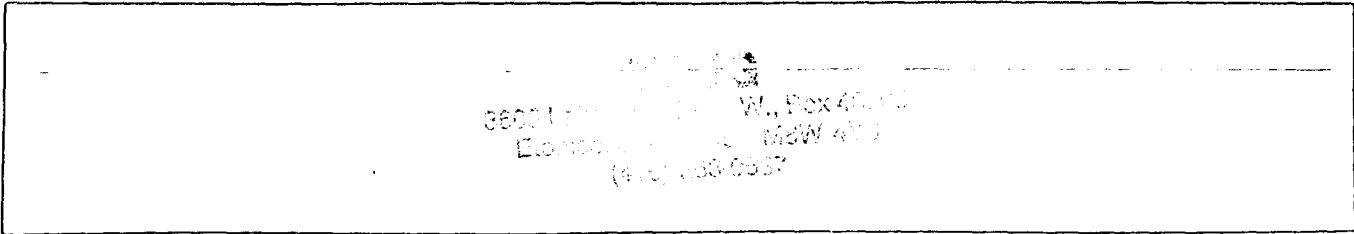
TPUG COMAL Library Disk Documentation

COMAL disks in the library are designated by a specifically coloured label, currently pale yellow. The disks covered in this documentation are (K)T1 to (K)T4, (K)U1 to (K)U5, (K)B1 to (K)B6 and (K)Z1 to (K)Z4.

(K)Tx

COMAL Today disk series

(K)T1	COMAL Today #1
(K)T2	COMAL Today #2
(K)T3	COMAL Today #3
(K)T4	COMAL Today #4

K)Ux

User Group disk series

(K)U1	User Group #1
(K)U2	User Group #2
(K)U3	User Group #3
(K)U4	User Group #4
(K)U5	User Group #5

(K)Bx

COMAL Book disk series

(K)B1   COMAL Handbook (1st. ed.)
(K)B2   Beginn'ing COMAL Handbook
(K)B3   Foundations in Computer Studies with COMAL
(K)B4   Structured Programming with COMAL
(K)B5   Captain COMAL Gets Organized
(K)B6   The COMAL Library of Functions & Procedures

(K)Zx

Miscellaneous series

(K)Z1   COMAL Tutorial (best first COMAL disk)
(K)Z2   COMAL Sample
(K)Z3   Auto Run Demo
(K)Z4   Utilities disk #1

The old language series, (C)Lx, in the TPUG C-64
library is now defunct.

(C)L1	gone
(C)L2	now (K)Z2
(C)L3	now (K)B6
(C)L4	now (K)T1
(C)L5	now (K)T2
(C)L6	now (K)Z1
(C)L7	now (K)T4
(C)L8	gone
(C)L9	now (K)T3

FILE NAME CONVENTIONS

COMAL	program saved to disk
COMAL.L	program listed to disk
COMAL.LST	program listed to disk
COMAL.B	BASIC program (saved)
COMAL.BAS	BASIC program (saved)
COMAL.DAT	data file
COMAL.FUNC	function listed to disk
COMAL.HRG	high resolution graphic screen
COMAL.W	wordprocessor text file
COMAL.TWT	wordprocessor text file
COMAL.OBJ	object file (machine language)
COMAL.PROC	procedure listed to disk
COMAL.SRC	assembler source code

DISK HEADER CONVENTIONS

A **V0.14** in the header of a COMAL disk indicates
that all programs on that disk with the exception
of BASIC programs run under version 0.14 or disk
COMAL.

A **V2.00** in the header of a COMAL disk indicates
that all programs on that disk with the exception
of BASIC programs run under version 2.00 or
cartridge COMAL.

A **MIXED** in the header indicates that there are both
V0.14 and V2.00 COMAL programs on that disk.

ALPHABETICAL LISTING OF DISKS IN THIS PACKAGE

Auto Run Demo disk	(K)Z3
Beginning COMAL Handbook	(K)B2
Captain COMAL Gets Organized book	(K)B5
COMAL Handbook (1st ed.)	(K)B1
COMAL Sample	(K)Z2
COMAL Today #x	(K)Tx
COMAL Tutorial disk	(K)Z1
Foundations in Comp. Studies with COMAL	(K)B3
Procedures and Functions	(K)B6
Structured Programming with COMAL	(K)B4
User Group #x	(K)Ux
Utilities disk #1	(K)Z4

Today Series

(K)T1   V0.14   edited disk listing

auto boot comal	etchasketch.1
comal v 0.14	etchasketch
error file	light'pen.1
hi	light'pen
info mar 84	koala.1
help-comal	koala
help-graphics	color'func.1
help-sprites	color'combo
big'letter.1	hidescreen.1
big'letter	show'screen.1
big'letter/demo.1	print'using
logo'emulator.1	note1.17prg
logo'emulator	val/demo.1
dir'lister.1	val/demo
dir'lister	square-a3
sky'catcher.1	square-b3
sky'catcher	design3
create'lander.1	design4
create'lander	square-c3
lander'sprites	squares3
lander.1	sprite-a1
lander	sprite-b1
microscribble.1	link prg.1
microscribble	link prg
paddletest.1	control.1
paddletest	new'prg

Notes:

Big'letter is a slow program that prints characters
on the high-res screen from 1x to 8x the normal
size in the direction which the turtle is heading.
Color'combo allows the testing of combinations of
text and background colours. The **microscribble,
paddletest, light'pen & koala** programs demonstrate
respectively the use of the joystick, paddles,
light pen and koala pad under COMAL. **Val/demo**
demonstrates the conversion of a string to it's
floating point value. See COMAL TODAY #1 for
further information.

(K)T2   V0.14   edited disk listing

auto boot comal	note97.1
c64 comal 0.14	page15samle.1
error file	page.1
hi	pens'color.1
help-comal	pentagram.1
help-graphics	plottext.1
help-sprites	proc1.1
8023p'options4	proc2.1
background.1	proc2.1
benchmark64.bas	reverse.1
benchmark64.coma	screen.char.1
benchmark64.1	set'screen.1
border'color.1	sinename
clear'collisn.1	front'page
convert	**sprite'editor21**
disk'get2.1	stars1.1
func3.1	stars1.1
inside.1	string
meeting	**vt-52.v4**
note76.1	plexpac.1
note79.1	vecpac.1
note80.1	**matpac.1**
note80-2.1	testisf.1
note81-1.1	tset'clog.1
note82-2.1	test'cp'r.1
note96.1	**rotpac**

Notes:

Sprite'editor21 is the first attempt at editing sprites. Use a later version! **vt-52** emulates a vt-52 terminal. **Benchmark 64.bas** and **benchmark 64.coma** can be used to compare the speed of BASIC and COMAL for certain types of programming. **Vecpac, matpac, rotpac** and **plexpac** are packages for manipulating matrices mathematically. See COMAL TODAY #2 for further information.

(K)T3   V0.14   edited disk listing

autoboot	getbackground.1
c64 comal 0.14	getborder.1
error files	getpen.1
hi	getpencolor.1
information84jan	getspritecolor.1
help-comal	getturtlesize.1
help-graphics	graphicstate.1
help-sprites	heading.1
bit'map'prints	hidescreen.1
circle.1	hidescreen2.1
clock	jiffies.1
comal'dump.asm	keyword'print
comal'dump.bas	load'demo
comal'dump.obj	load'demo2
convert(new).1	**load'screen.1**
create!	load'screen2.1
curcol.1	moire.hrg
currow.1	mount.1
cursor.1	obj'load.1
demo	obj'save.1
dir'manipulator	page.1
drawletter.1	penstate.1

(K)T4   V0.14   edited disk listing

auto boot	joystick.proc
c64comal 0.14	lock'lower.proc
errror files	lock'upper.proc
hi	logical'ops.func
abc.sprite	ml'string/demo
alpha'gen	music'all/demo
alpha.dat	opt'triangle
alpha2'gen	optical'hexagon
alpha2'dat	paddle.proc
comal'bug-a	polyspirals
comal'bug-b	prime/demo
dec'to'hex/dem	ram'errors
diamond	random'plot
disk'protect	rocket'sprite
disk'talk'ex	screen'location
disk'talk'examp2	scroll'down/demo
dodge'em	**seq'print**
dump'1525	spirolateral
dump'big'epson.1	stars
dump'nec8023	takeoff/demo
dump'prowriter	tiles
dumpscreen.proc	tri'hex/demo
dumpscreen/demo	**two'drive'copier**
dumptext1525.1	two'drive'instru
dynam'data	unlock'case.proc
find'string/demo	wall'clock
gutenberg'shell	wandering
gutenberg'Ademo	
gutenberg'Bdemo	1541 backup.bas
hex'to'dec/demo	

(right column top)

pie'chart'maker	set/readtime.1
pie'chart'print	setx.1
plot'char.1	sety.1
plot'char/demo	showscreen.1
polygon.1	showscreen2.1
quicksort'num	showsprite.1
quicksort'str	spritestate.1
random'file/demo	spritexcor.1
randomize1.1	spritexsize.1
randomizer2.1	spriteycor.1
save'demo	spriteysize.1
save'screen.1	turtlestate.1

Notes:

Many of the programs on this disk are 0.14 versions of commands that exist in the cartridge COMAL But not the disk COMAL. **Save'screen** saves the high-res screen to disk and **load'screen** loads the file back into the high-res screen. **Plot'char.1** allows the use of any character on the high-res screen. See COMAL TODAY #3 for further information.

Notes:

Disk'protect allows a disk to be made 'read only'. **Two'drive copier** allows two 1541 drives to copy from one to the other. **Seq'print** lists all of the programs on a disk to the printer. **'Gutenberg'** programs demonstrate the ability to print characters to the high-res screen in a variety of styles and size. See COMAL TODAY #4 for further information.

User Group Series

(K)U1 V0.14 edited disk listing

autoboot	diamond
c64 comal 0.14	**dragon**
error files	eightboxes
hi	etch-a-sketch
1525screendump	graf1
sd2 copier	graf2
sd2 copy&label	graf3
label	graf4
mail'label'hs	graf5
title'page.proc	graf6
shell'sort$.proc	grid
header.proc	**hanoi**
seq'print	**hilbert**
3d'cube	life
aprilfool	p'circle
beeper	percentage gain
bounce	rnd'bounce
c'curve	serpent
circles'key	spirolateral
clock	spiro.plain
cones	starry night
curve	the'thing
design 2	turtlestick 6
design 3	turtlestick 7
design 4	who

Notes:

Various programs such as **dragon, hanoi** and **hilbert** demonstrate the use of recursion. **Header.proc** allows the quick creation of individual headers on programs.

(K)U2 V0.14 edited disk listing

autoboot	ct.header
c64 comal 0.14	curvette
error files	find'string.demo
hi	flowers
gutenberg'shell	four circle
alpha1'gen	hamburger
alpha1.dat	hourglass
alpha2.dat	lifer
gutenberg'Ademo	lissajous
gutenberg'Bdemo	nev'house
bit'print'epson	nh3.exc
1525 **pixel dump**	pinwheel
x-ycor.proc	polymusic
heading.proc	spiral'star
circle.proc	spiral mob
title'page.proc	star'power
basic'to'comal	starwatch
coin flip	tabby
comal art	

Notes:

The 'gutenberg' series of programs are also on (K)T4. **Bit'print'epson** and 1525 **pixel dump** dump the high-res-screen to the epson and 1525 printers respectively.

(K)U3 V0.14 edited disk listing

auto boot	atari'graphics
c64 comal 0.14	bagel
error file	beep/gong.demo
hi	chris'star
tddcfc	circles
tddcfc.inst	color swirl
prowriterdump.1	comal promo
nec8023 scrndump	crazy quilt
nec ml dump	fft'model
ml'dump.obj	key draw
colors.proc	music'all'demo
abc.sprite	pascalstrekant
rocket.sprite	polar
dynam-data-8	rnd color sqs
84expenditures	shapes
amaz'in basic.b	sin'on'the'side
amaz'in comal.c	spiral'cir
amaz'in simon.s	spirograph
angry.dragon	spotty
another'moire	tiles

(K)U4 V0.14 edited disk listing

autoboot	clue
c64 comal 0.14	comal2.02 boot
error files	dizzy turtle
hi	drum
record keeper	fanfare
label-ab	flasher
budget	keno.game
address	kenoboard
dumpscreen.1525	namegame
terminal	perm'game
comal'error'gen	print boxes
accept'demo	rectan
hersh demos	rectangles
str$.proc	scale
val2.proc	son of moire
arabesque 1	son'of'pinwheel
arabesque 2	spiral'sqr
arabesque 3	sprite'circle
arabesque 4	starwars
arabesque 5	supersketch
arabesque 6	weirdness
arabesque 7	window
checkerboard	

(K)U5 V0.14 edited disk listing

auto boot	drawshape.demo
c64 comal 0.14	drumette
error files	envelope'print
hi	fast'circle
neccomaldump	fillbox
txt.screendump.1	flurry
asc.func	fourier sq
scr2petsci.func	graphics demo
design.dat	haiku
flake.dat	house
e.dat	kaleidoscope
f.dat	moon phase
g.dat	moving'turtle
arabesque8	music'synth'eric
arcs.demo	pauls'math'add
card'dealer	poly'circles
circle'maker	polygoncrazy
circle2.demo	probability
city'scape	random'show
color mix	readsprite/demo
color'pic'loader	strs retirement
cube designer	therapy
dog/cat	turtlestick8
dot.and.line	midwesterm 4.0

Book Series

(K)B1 V0.14 edited disk listing

auto boot	func
c64 comal 0.14	if
error files	in
hi	input
info 84 mar	int
help-comal	key$
help-graphics	len
help-sprites	let
create.l	log
cursor.l	mod
even.l	not
fetch.l	null
file'exists!	of
get'char.l	open
get'valid.l	or
jiffies	ord
lower'to'upper.l	otherwise
mount	pass
new'employee.l	print
odd.l	printfile
pos.l	proc
put'record	random
randomize	read
round.l	ref
shift.l	repeat
control.l	restore
commodore'key.l	return
take'in.l	rnd
value.l	select
abs	sgn
and	sin
append	sqr
atn	step
case	tab
chr$	tan
close	then
closed	to
cos	trap
data	true
delete	until
dim	using
div	when
elif	while
else	write
end	zone
endcase	print'directory
endfor	utilities
endfunc	file'to'print
endif	file'to'screen
endproc	cursor/demo
endwhile	value/demo
eod	shift/demo
eof	jiffy/demo
esc	quicksort/demo
exec	joystick/demo
exp	paddle/demo
false	disk'get/demo
file	logical'ops/demo
for	

Notes:

See COMAL HANDBOOK by Len Lindsay for further information. This book is available from the COMAL Users Group, U.S.A.

(K)B2 V0.14 edited disk listing

auto boot	enrol
c64 comal 0.14	correct
error files	entermarks
hi	report
info 84 mar	hannibal
help-comal	wordgame
help-graphics	xmascards
help-sprites	xmasfile
exe 17-141	enternames
discount	enteroptions
oddeven	newshop
peanuts	writeoffer
bignuts	addrpgr
addition	exhibitoptions
unclexmas	markbooks
auntie	xmas
festivals	options
doctor	offer
eggs	addresses
wheel	1541 backup

Notes:

See BEGINNING COMAL by Borge Christensen for further information.

(K)B3 V0.14 edited disk listing

auto boot
c64 comal 0.14
error files
hi
info 84 mar
help-comal
help-graphics
help-sprites
prg# 1 to 118
1541 backup
single file copy

Notes:

See FOUNDATIONS IN COMPUTER STUDIES WITH COMAL by John Kelly for further information.

Notes:

See STRUCTURED PROGRAMMING WITH COMAL by Roy
Atherton for further information.

Notes:

See CAPTAIN COMAL GETS ORGANIZED by the COMAL Users
Group for further information.

Notes:

See THE COMAL LIBRARY OF FUNCTIONS AND PROCEDURES
by Kevin Quiggle for further information.

Misc. Series

(K)Z1 V0.14 edited disk listing

auto boot	lesson eleven
c64 comal 0.14	lesson twelve
error file	lesson thirteen
hi	lesson fourteen
menu	lesson fifteen
lesson one	lesson sixteen
lesson two	lesson seventeen
lesson three	lesson eighteen
lesson four	lesson nineteen
lesson five	lesson twenty
lesson six	graphic's tutor
lesson seven	turtle'tutor
lesson eight	number file
lesson nine	studentfile
lesson ten	

(K)Z3 V0.14 edited disk listing

auto boot	hilbert
c64 comal 0.14	ink blot
error files	keno
hi	optical hexagon
menu	optical triangle
arabesque	pie chart
business graph	poly spirals
chris's star	random music
clock	slide show
clown	spirolateral
color swirl	takeoffdemo
curves	towers of hanoi
draw diamond	abc.sprite
draw house	alpha2.dat
example song	blither.hrg
graphic equat.	calculator.hrg
graph waveforms	glady.hrg
graphics tutor	griffin.hrg
gutenberg	rocket.sprite

(K)Z2 V0.14 edited disk listing

auto boot	utilities
c64 comal 0.14	recursions
error files	formatter2
info 84 mar	file'to'print
help-comal	file'to'screen
help-graphics	disk commands
help-sprites	c64 comal info
see'info.	remove comments
see'instruct.	see'roll/demo
logo'book'sample	see'page/demo
snowflake	cursor/demo
sprite/turtle	value/demo
squiral	shift/demo
music	jiffy/demo
bounce	quicksort/demo
sprite'design2	joystick/demo
lander	paddle/demo
create'lander	disk'get/demo
sky'falling	logical'ops dem
create'sky	sprite data
read'directory	lander'sprites
print'directory	sky'sprites
expression	

(K)Z4 edited disk listing

auto boot	file'to'screen
c64 comal 0.14	two'drive'copier
hi	two'drive'instru
error file	utilities
generate errfile	view'directory
ram'errors	terminal
dump'1525	vt-52.v4
dump'big'epson.1	basic'to'comal
dump'nec8023a	color'combo
dump'prowriter	dec'to'hex/demo
dumpscreen/demo	dynam-data-8
file'to'print	find'string/fast
8023p'options4	find'string/full
abc.sprite	formatter2
sprite'editor	hex'to'dec/demo
beeper.1	load'screen2.1
fanfare	pie'chart'maker
music/demo	print'seq'files
auto'directory	quicksort'number
copy & label	quicksort'string
dir'lister	remove comments
dir'manipulator	save'screen.1
disk'get/demo	turtle/demo
disk'protector	1541 backup
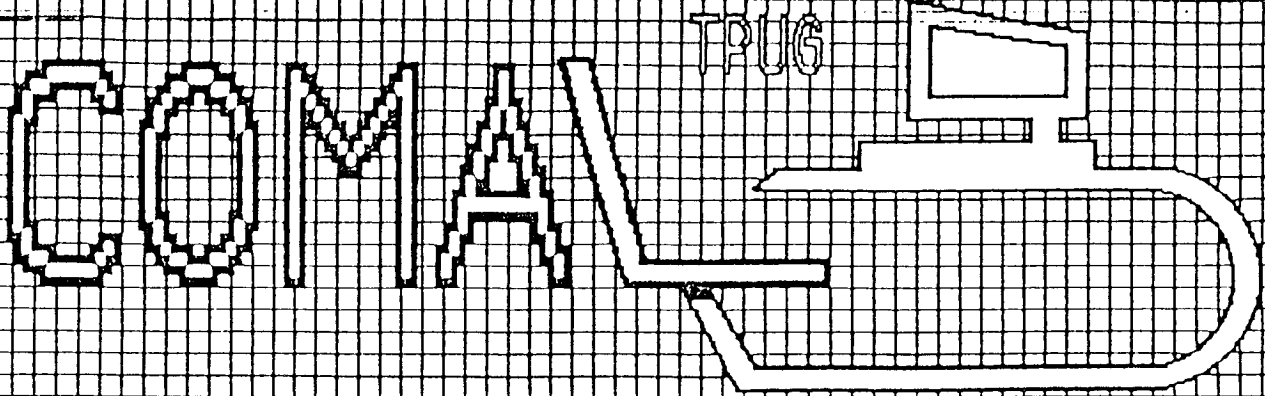
COMAL is a structured language with turtle graphics and automatic syntax checking on entry. TPUG has one of the largest public domain collections of COMAL in North America with over 80 disks. There are two versions for the Commodore 64 in the library; a disk based version, 0.14, and a cartridge version, 2.00. The disk version has about 10K free memory and is on many of the early 0.14 disks. The cartridge version has about 32K free memory and the cartridge can be bought from the COMAL Users Group, USA for about $80(US).

CURRENT COMAL DISKS (Dec.1,1987)

(K)T SERIES

(K)T1	V0.14	COMAL TODAY #1		(K)T9	V2.00	COMAL TODAY #7 v2.00 side
(K)T2	V0.14	COMAL TODAY #2		(K)TA	V0.14	COMAL TODAY #8 v0.14 side
(K)T3	V0.14	COMAL TODAY #3		(K)TB	V2.00	COMAL TODAY #8 v2.00 side
(K)T4	V0.14	COMAL TODAY #4		(K)TC	V0.14	COMAL TODAY #9 v0.14 side
(K)T5	MIXED	COMAL TODAY #5		(K)TD	V2.00	COMAL TODAY #9 v2.00 side
(K)T6	V0.14	COMAL TODAY #6 v0.14 side		(K)TE	V0.14	COMAL TODAY #10 v0.14 side
(K)T7	V2.00	COMAL TODAY #6 v2.00 side		(K)TF	V2.00	COMAL TODAY #10 v2.00 side
(K)T8	V0.14	COMAL TODAY #7 v0.14 side				

(K)U SERIES

(K)U1	V0.14	USER GROUP #1		(K)U8	V0.14	USER GROUP #8
(K)U2	V0.14	USER GROUP #2		(K)U9	V0.14	USER GROUP #10
(K)U3	V0.14	USER GROUP #3		(K)UA	V2.00	USER GROUP #11
(K)U4	V0.14	USER GROUP #4		(K)UB	V0.14	USER GROUP #12
(K)U5	V0.14	USER GROUP #5		(K)UC	V2.00	USER GROUP #13
(K)U6	V0.14	USER GROUP #6		(K)UD	V2.00	USER GROUP #14
(K)U7	V0.14	USER GROUP #7				

(K)Z SERIES

(K)Z1	V0.14	COMAL TUTORIAL		(K)ZD	V2.00	HOLLAND #2 (dutch lang.)
(K)Z2	V0.14	COMAL SAMPLER		(K)ZE	V2.00	HOLLAND #3 (dutch lang.)
(K)Z3	V0.14	AUTO RUN DEMO		(K)ZF	V2.00	HOLLAND #4 (dutch lang.)
(K)Z4	V0.14	UTILITIES DISK #1		(K)ZG	V2.00	HOLLAND #5 (dutch lang.)
(K)Z5	V2.00	CARTRIDGE DEMO #2		(K)ZH	V2.00	HOLLAND #6 (dutch lang.)
(K)Z6	V2.00	CARTRIDGE DEMO #3		(K)ZI	V2.00	HOLLAND #7 (dutch lang.)
(K)Z7	V2.00	CARTRIDGE DEMO #4		(K)ZJ	V2.00	HOLLAND #8 (dutch lang.)
(K)Z8	V0.14	BRICKS TUTORIAL #1 side		(K)ZK	V2.00	HOLLAND #9 (dutch lang.)
(K)Z9	V0.14	BRICKS TUTORIAL #2 side		(K)ZL	V2.00	ENGLAND #1 (UK user group)
(K)ZA	V0.14	UTILITIES #2 side #1		(K)ZM	V2.00	ENGLAND #2 (UK user group)
(K)ZB	V0.14	UTILITIES #2 side #2		(K)ZN	V2.00	ENGLAND #3 (UK user group)
(K)ZC	V2.00	HOLLAND #1 (dutch lang.)				

(K)B1	VO.14	COMAL HANDBOOK (1st ed.)	(K)B6	VO.14	COMAL LIB. OF FUNC. & PROC.
(K)B2	VO.14	BEGINNING COMAL HANDBOOK	(K)B7	V2.00	COMAL HANDBOOK (2nd. ed.)
(K)B3	VO.14	FOUND. IN COMP. STUDIES	(K)B8	VO.14	GRAPHICS PRIMER
(K)B4	VO.14	STRUCTURED PROG. WITH COMAL	(K)B9	V2.00	COMAL 2.0 PACKAGES
(K)B5	VO.14	CAPT COMAL GETS ORGANIZED	(K)BA	V2.00	COMAL 80 vers. 2.01

(K)X and (K)L SERIES   (K)S SERIES

(K)X1	VO.14	BEST OF COMAL #1	(K)S1	VO.14	SLIDE SHOW #1 (pictures)
(K)L1	VO.14	COMAL FOR THE PET/CBM	(K)S2	VO.14	SLIDE SHOW #2 (pictures)

All COMAL Today disks received after May 1st.,1986 have been put into a new classification system. The disks will be (K)xxx where xxx runs from AAA to ZZZ.

(K)XXX SERIES

| (K)AAA	CO.14	COMAL TODAY #11 v0.14 side	(K)AAJ	C2.00	COMAL TODAY #15 v2.00 side
(K)AAB	C2.00	COMAL TODAY #11 v2.00 side	(K)AAK	CO.14	COMAL TODAY #16 v0.14 side
(K)AAC	CO.14	COMAL TODAY #12 v0.14 side	(K)AAL	C2.00	COMAL TODAY #16 v2.00 side
(K)AAD	C2.00	COMAL TODAY #12 v2.00 side	(K)AAM	CO.14	COMAL TODAY #17 v0.14 side
(K)AAE	CO.14	COMAL TODAY #13 v0.14 side	(K)AAN	C2.00	COMAL TODAY #17 v2.00 side
(K)AAF	C2.00	COMAL TODAY #13 v2.00 side	(K)AAO	CO.14	COMAL TODAY #18 v0.14 side
(K)AAG	CO.14	COMAL TODAY #14 v0.14 side	(K)AAP	C2.00	COMAL TODAY #18 v2.00 side
(K)AAH	C2.00	COMAL TODAY #14 v2.00 side	(K)AAQ	CO.14	COMAL TODAY #19 v0.14 side
(K)AAI	CO.14	COMAL TODAY #15 v0.14 side	(K)AAR	C2.00	COMAL TODAY #19 v2.00 side

DISK HEADER CONVENTIONS

A VO.14 in the header of a comal disk indicates that all programs on that disk with the exception of basic programs run under version 0.14 or disk comal.

A V2.00 in the header of a comal disk indicates that all programs on that disk with the exception of basic programs run under the version 2.00 or cartridge comal.

A MIXED in the header of a comal disk indicates that there are both VO.14 and V2.00 comal programs on that disk.

FILE NAME CONVENTIONS

suffixed	prefixed	meaning	suffixed	prefixed	meaning
NAME	NAME	COMAL program file		SNG.NAME	Song file
NAME.L	LST.NAME	Program listed to disk		HRG.NAME	Colour COMAL picture
	DSP.NAME	Program displayed to disk	NAME.HRG		Black/white bitmap
				CRG.NAME	Compacted colour pix
NAME.PROC	PROC.NAME	PROC listed to disk	NAME.CRG		Compacted b/w bitmap
NAME.FUNC	FUNC.NAME	FUNC listed to disk		ICON.NAME	Print shop type icon
NAME.DAT	DAT.NAME	Data file		SCRN.NAME	Text screen file
NAME.TXT	TXT.NAME	Text file		POP.NAME	Mergeable popover
NAME.DOC	DOC.NAME	Documentation file	NAME.POP		Program with popover
	EXT.NAME	External PROC/FUNC		CHIP.NAME	Program for superchip
	SHAP.NAME	Sprite shape file	NAME.BASIC		BASIC program
	FONT.NAME	COMAL font file		MEM.NAME	Memory image file
	FONT.MC.NAME	Multicolour font file		LIB.NAME	Assembly library file
	SET.NAME	BASIC type font file		SYM.NAME	Assembly library file
	PKG.NAME	Package file		SRC.NAME	Assembly source code
	BAT.NAME	Batch file			
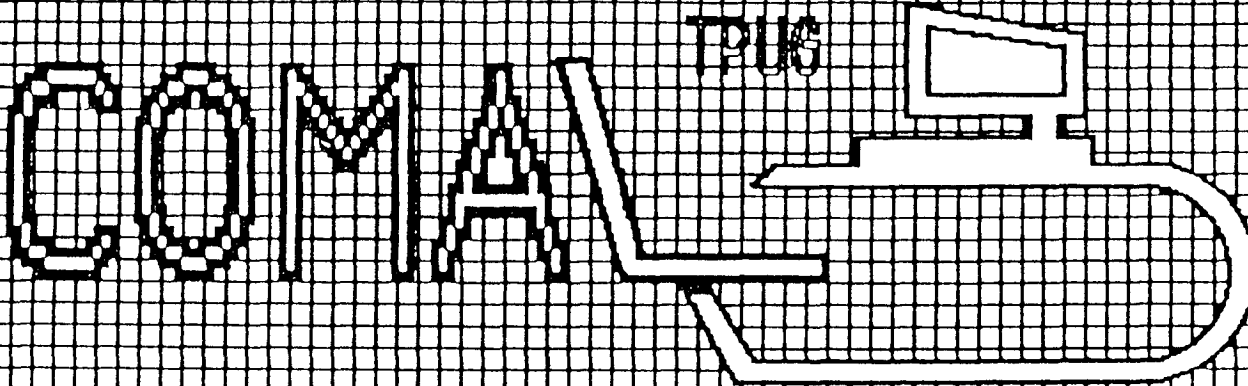
NEW COMAL DISKS AVAILABLE FROM TPUG

TODAY SERIES

(K)T5	MIXED	today #5 disk
(K)T6	V0.14	today #6 disk (side 1)
(K)T7	V2.00	today #6 disk (side 2)

USER GROUP SERIES

(K)U6	V0.14	user group #6 disk
(K)U7	V0.14	user group #7 disk
(K)U8	V0.14	user group #8 disk

BOOK SERIES

(K)B7	V2.00	COMAL handbook (2nd ed.)
(K)B8	V0.14	GRAPHICS PRIMER book
(K)B9	V2.00	COMAL 2.0 PACKAGES book

MISC. SERIES

(K)Z5	V2.00	cartridge demo #2
(K)Z6	V2.00	cartridge demo #3
(K)Z7	V2.00	cartridge demo #4
(K)Z8	V0.14	bricks tut. side 1
(K)Z9	V0.14	bricks tut. side 2

BEST OF SERIES

(K)X1	V0.14	best of comal #1

SLIDE SHOW SERIES

(K)S1	V0.14	slide show #1 disk

LANGUAGE SERIES

(K)L1	PET V0.14	V0.14 for PET/CBM

(K)S2	V0.14	slide show #2 disk