

Dragon answer

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AGON Contents

Coding the words

Firmware

Numbers Game -Part Two

Adventure Trail Dragon Answers

Brian Cadge with another session of ques Competition Corner

Editorial

Fighting words from Ted Oprychal - but what do they really mean for

What's more. Eurohard seem to be committed to producing a 1996 or secon Add to this Compusense's commitment to a hard disk interface, fleggy

Then again, if it means the continued development of new Dragon

There must be a Dragon 120 - It is the logical next step in the evolution

FLEY OPERATING SYSTEM with Editor/Assembler and DISK BASIC 599.99. CUMANA DISK DRIVES for the DRAGON 32/66 System 4: Tests Single Sided 40 Tests (CDS00 deat) ESSASS System 5: Tests Dearles Sides 40 Tests (CDS00 deat) ESSASS

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Letters *** Fantasy

Fight

Printer Control

Data?

Not so Super?

Mnemonic

Jigsaw

I agree that the idea of a

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& Dragon User September 1985

News desk Eurohard - plans ahead

15 DRAGON 200 - E

Eddy steady go!

lex word proc

10229

Coding the words <1> will print out, at a readable rate.

MENU Screen disable the MENU screen. This gives

4236 | 2782238135182782# 315 4252 | D78F18164F828486# 953 4202 | D70010144FH70400# 303 4268 | 88888F2454381F86= 643

4202 :0010H38D8086815F 923 4300 102/FF/08158102/= /09 4300 :0203010027E02007= 050

4582 "WORDPROC" (DISC) MEMORY DUMP. 43% (8828F21689C72853# 747 4364 | 5749544348205852= 577

4484 | 5428202854455854* 518

4988 9E26C14E25E89682# 912 4548 :813A278228E83881= 533

FOITOR' Screen

4332 :143889FE80802454# 731

4654 275080181025ER91= 763 APPA GEOTISTICS OF TAT 4692 (82F7181828R4D681= 684 4788 F71018209020494E= 650

4756 :2834212127293000a 254 4772 4045222C29232228= 420

100 IE TOTT THEN PRINT'error - ENT 146 NEXT N

4812 9ER63418388CRE9F= 913 4894 -0E12F48D133C9ERG- 99G

Text Input Made

RIBS -5228322828494653= 462

5188 -5080179080170181= 867 5229 :88868188274C188F= 534 5252 | 2700818827538180= 663

CHREUTAL the code for double width area

-7054455054007F10= 500

Too much of a Challenge?

5388 (19000688188885E1# 949 F7801800860025F8# 838 5324 -5610162009068F29m 636 5256 -84188F8888381F8C= 726

5450 (198880187216FE45= 886

109F8099B090E59E= 1947 6388 : 1883188E18223934+ 553 -000C101425F516FF= 788 · 2000000000001000= 400 6428 -1814188C18242712= 258 6436 B6929792189C1824# 981

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7908 | 28464F5228454449# 585 8852 | 5241408036282829- 207 PRICH FOR TRPE.

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nes I lans Manimakov 4 Mili

FLEX revisited

Roy Costes takes another look at the new official Dragon operating system. FLEX

Contents of the FLEX system disk

DATE

3,000

This file holds the date used for the character set used in the

A list of FLEX commands may be stored in a normal text file and

Switches the verify option on or off when saving or loading a disk.

JSR PSTENT Once FLEX has been booted on a



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Design and Manager Ladger potting traction of 50 dates and could be be a properly traction of 50 dates and could be be a properly to the properly traction of 50 dates and could be properly to the properly of the properly traction of the second could be the properly of the properly

Firmware	Bri	on Cedge explores the Dragon's loh builds up month by modth in	ACM in a to a firme	special series
THE DRAGON'S FIOM contains 16K		d of No block	125	Cassete Block Length. This
of marking costs studions for handling	Fact 2	lock consists of the following:	160	
the screen keyboard graphics, and				been read, or are to be written
sound necessary for Morosoft Basic.	2 A Syrv	t bylia of SSC	126-127	Cassetle I O buffer address. I contains the address of when
Many of these routines are extremely	3 Block	type byte length byte (0-255)		mut a block of data read, or 5
useful for the machine code program-	5 Data h	eingm syre (A-200) year (up to 255)		where a block of data is to
mer, and some can even be used				written
directly from Basic. To use a "fictiware" (ROM) routine.	7 Attale	or byte of \$55	125	Used internally for salculating charlesons.
to use a "normalia" (HDM) round in your own programs. If it recessary	The bi	ock type byte signals the type of on in the block, 0 = Filename	129	I/O ever code. This contain
in your own programs, it is recessivy in anew several pieces of information.	hinry 1	- Data block, 255 - End of File		
Obviously, the entry address is re-				
puned, but also are special entry	tated by	summing bons 3, 4 and 5		(checksum) error, 2 - attempts to load into an area where the
requirements, such as registers and	errors.	This is used to detect CRC		was not RAM.
memory locations which must be set	The E	seame black is a special type of	130-133	
up, and the exit conditions of the				DOS internally.
routnes. This new series of articles will tell		long and contains the following	164-16	Cassette Leader byte count."
you all you ever wanted to know about	Informati 1 South	thanking for the Sename		
	2 A Set	yne lyte		
Every useful PIOM routine is given as	3 An AS	CII fleg byle		POREd to a larger value if suffer from received I/O er
well as a complete memory map of	4 Appp	flag byte		caused by over-sensitive in
locations used. Each aspect of the	0.190	bytes for the start address of ne code		
fireware will be considered individual-	6 Two I	over for the entry address of	149-150	
ly, starting this month with the causet- te handling firmware. Anyone writing				setta motor on routine is sale performs a delay loce be
assembly proposed with any saver	The 10	e type byte signals the type of file dows: 0 - toestised basic, 1 -		raturning; this is effectively
load options (such as advertise)	ASCR (sta, 2 - Brans, The ASCII flag.		
games, word processors, databases				
and the like) will find all the relevant	ASCI N	es. Finally, the Gap flag byte takes		these locations are used for size of the delay loss, Initi
information here. Many of the loca-	the valu	e 1 for a continuous file, and 255 with start stop page.		this is set to be about
tions given can also be PEEKed (and	for a file	with start stop gaps.		
POWEs by the Basic programmer to enhance a Basic program.				changed to a larger value
Each section will take the form of a	COS M	enory Map		cassete recorders which tall while to reach full speed.
memory map showing all the useful	The h	oligwing locations are those used passeds operating system. Most	455	Length of the Filename. Th
routines documented, followed by the				ters in the Bename, and
firmuse routine entry points and	stert ac	titress and error code, can be	400.47	range from zero to eight. Cassette filename to search
notes. Wherever possible, the Tandy CoCo instanded Basic 1.17 routine	upoholy.	PEEKed from basic. All addresses in in decimal. Where two consecu-		
address will also be given in brackets.	Sun loca	flors are given, the value is 15 bit.	474-725	
Generally the routines are identical on				area of memory used to load
the two machines, differing only by the	110	Cassedo I/O flag. This has the		Sesame block and ASCII - blocks into, If this contain
position in the ROM.		value 255 when cassette input or output is taking place.		Sename block, then the follow
	112			
have a complete "fireware manual"			474-48	Filename of file found
for your Dragon computer.		of the has been reached if it is set.	482	File Type Byte (see tope to information)
The Cassette Operating System		to non-zero. (This is the location used by the EOF (-1) command	483	ASCII flag byte (see tape to
The Cassette Operating System (CCS)		in flasic.)		
	120	Cossette Status Byte. This can	484	Cap flag byte (see tape to
to tape. The various levels of the system		take fivee values. O means the		Information) 6.16 bit entry address for mic i
allow reading and writing on the character by character, block by block, or whole file		cassette stream is closed. I means the stream is open for	465-40	6.16 bit entry address for mic a programs
basis. Output is visithe 6 bit DIA converter			467-40	
			The	tolowing locations are differently COCO machine:
at approximately 1500 boud (about 190 sharacters per second).		NO and 'AO' errors from scour-	256 Tan	
A standard Dragon file is made up of the	121	10 buffer size.		
			166-16	
				tals as for locations 144
1261		memory. Set up internally.		above. month, we conclude our look of
2 A filename block 3 A 0.5 second pap of tape	126	Cassette Block Type. This is taken from the start of the block		
4 Another leader of value \$55		just read and is as detailed	the rel	



New you can improve your onart computing skills... and it's easy to do. HOT CaCe gives you more preceded information on the Dragon' than any other publication. Needs 15th commenced.

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Fearless Freddie!

It's time for tea!

Money, money

The numbers game part two

Pare D'Arcy has had so much mail about her disassembler for beginners in the June issue that she have hard in extend it - this month, how to during to printers, and loading machine code

SAVE "newname", 12001,15251,12001 ROBERN PRINTER DUMP

* ARTHMELED USING DISKDREAM * AFTER CLEAR 280,15218

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a convert text arrest ('POKE') Load the HEX LOADER renovam and

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* CB(LF) if end of screen line (tape) CSAVEM 'prognesse", 12001, "progname". CONDR MRIF

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15211 86 80 80 88 8F 8E 84 88 A6 88 919 15221 01 7F 22 8E 01 28 22 84 8A 68 737 15231 20 86 01 68 25 02 04 DF BD 08 942 15241 RF 1F 18 C4 1F 26 85 86 80 80 668 OVERALL CHECKSUN TOTAL 3867

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Dragon Answers

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