NOV 181

FEEDBACK

The most satisfying thing about a newsletter is the way in which it creates a two-way link between readers and writers. We have all been delighted with the regular stream of letters, ideas, comments and helpful criticisms that have come our way since issue No. I was distributed in August. Please keep it going!

64K

There has been such a demand for 54% ado-ons that its been almost embarrassing. The printed circuit board is under way but some folk just insist on getting a wire-wrapped version rather than wait those extra few weeks. The P.C.B. version will be available in January.

16K Add-on = 20K

OK. OK. You win! We will have a 16K add-on available in January. Probable price 4506, or \$440 to schools. Please note - its 20K or 64K. You will not be able to upgrade the 20K to anything other than 64K as the 16K chips can be later replaced with 64K chips. So with 4K of Monitor, 16K of switchable EPROM and 20K of RAM, its got to be good value.

COMPUTER MACHINERY LID

P.O.BOX 37 349 36 CHESHIRE STREET PARNELL AUCKLAND 1 798 30% (4 lines) AUCELAND

HARDWARE NEWS

Regaeus expansion updato:

Level 1 Expansion — is made on the basic Pegasus board to give graphics and an extra parallel port (eg for a printer)

Lovel 2 Expansion — will be available in 6 weeks and will incorporate several previously offered features onto a new single board which will fit into the standard fegaus case. All or any of these upgrades may be added to this board as required:

-640 EPROM expender selectable as 4 separate 16K blocks by a hardware switch or by software through the Monitor menu

-64% RAM

-wirewrap area

-network interface to allow connection to the Perseus network controller

-1 spare parallel (9 bit) ports

Level 3 Expansion (provisional specifications only) is expected to be available early next year to provide the following apprades on a single board (all or any may be fitted as required)

-80 x 24 character video controller for use with a high quality TV monitor will also provide programmable character graphics (effective resolution 540 x 208 dots)

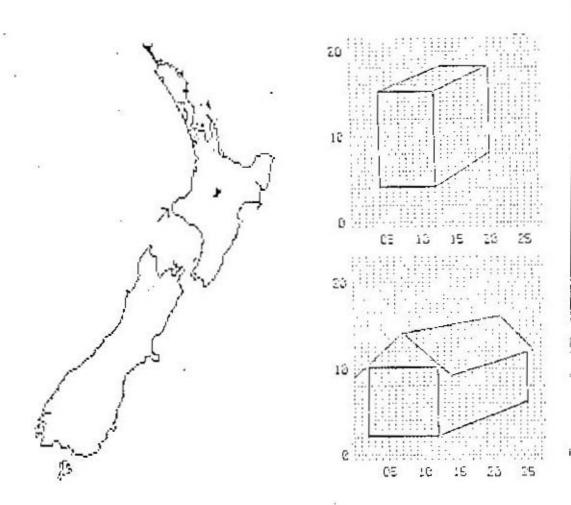
-minifloppy disk interface for up to 4 double sided double density drives

-SS-30 I/O bus interface for up to 8 peripherals

-colour graphics adapter to overlap the 80×24 text display in 16 colours with 256×192 graphics resolution and a programmable spund generator. The normal Pegasus 32×16 character display with colour will output, if desired, directly to a normal colour TV

SOFTWARE NEWS

Newsletter No.3 made mention of the printer routines built into our new Monitor. Experimentation with these routines has given us some exciting results. The following reduced copies show various printouts from a Pegasus using an EPSON MX80 TYPE II printer.



Even those of you who do not have a printer will enjoy experimentation with the programs used to draw these pictures on the screen. If any of these programs interest you, a stamped addressed envelope will ensure that a printout is sent to you; HOWEVER, to use these programs satisfactorily, you will need a cassette tape of the graphics characters used.

CASSETTE SOFTWARE

Those programs below are available on cassette and include printouts and documentation.

CHARACTER CREATOR (Basic & Forth versions)

-allows a user to croate up to 128 programmable characters and save them on tape for future use. A set of pre-programmed characters (including alphanumerics) is included.

LINES (Basic)

-allows full use of the graphics facility to draw straight lines and perspective drawings. Sample displays were shown in reduced form on the previous pare.

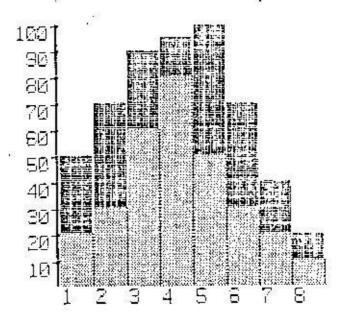
STACK OPERATIONS (Forth)

-presents a "window" on the top 5 locations of the Forth Stack. Forth uses Reverse Polish Notation for its arithmetic operations. This program allows the user to see how numbers are manipulated on the stack using Forth words such as DUP, ROT, SWAP, OVER as well as + -* / .

HISTOERAM (Forth)

-allows easy plotting of data in column format. column height, number of columns, column Max 1 mum headings and histogram title are all user selectable. Columns may be drawn in 2 shades; deletions and additions to individual columns may be made; the final histogram may be saved on cassette

rafer to the last page for prices. Flease



Software from our readers:

Many thanks to Rory Sherlock for his Stock Rotation program for farmers. The program converts the size of a mob of stock to a set of standars units for feeding purposes. A schedule for rotating the mob through a series of paddocks is calculated considering such factors as paddock size and grazing intensity.

Rory is busy working on expanding this program and eventually building up an entire farming package. We would welcome exchanges with other programmers in a bucolic situation. (you might have to look up that word in a dictionary, but its not derogatory at all)

Thanks also to young 8. Southon of Palturanga for his Reactor program which tests your reaction time to press a key from 1 to 5 as the number shoots across the screen.

Printouts of both programs are available open receipt of an addressed stamped envelope.

Forth Users

A note for those with forth on their 64% mochine. Since Forth sets MEMEND at 7F9E in order to protect Forth Text above 8000, remember that you will have to reset MEMEND to BD9E if you want to use the full memory space when switching to XBASIC or some other language. Alter MEMEND by using the Memitor modify function to change memory location BDF4 from 7F to BD

Bacto Users

It you use the Character Creator program to form your own programmable characters you may wish to add these additional controls

line 371 T -put cursor at upper left
372 B -put cursor at bottom left
373 L -move cursor to har left
574 A -move cursor to far right
375 H -fill a row
376 h -pmpty a row
377 V -fill a column
378 v -move cursor

371 15 M484 THENPRINTEL4,03.:GOTO300

U70 (F M%46 THENPRINTC14,163,:G0T0300 D70 1F M=82 THENPRINTC091,:G0T0300 374 IF M=76 THENPRINTC141,:G0T0300 375 IF M=72 THENPRINTC141," ",C141,:G0T0300

375 IF M=72 THENPRIKTE141," ",E14],:GDT0300 376 IFM=104 THENPRINTE141,"[][][][][][][][][][] ",E14],:GDT0300 377 IF M066 THEN600

378 IF M=118 THEN500

600 x=PEEK(#9DF9):PRINTEX,03, 610 IF M=86 THENFOR Y=OTU15:PRINTEX,Y3," ",:NEXTY:GOTU650 530 FOR Y=OTU15:PRINTEX,Y3,"E3",:NEXTY

450 PRINTEX, 01,:8070300

NOTE that lines 375 and 610 should use inverse spaces.

OUR AUCKLAND MARKETING REPRESENTATIVES

Some of you have probably already met Rex Griffiths and Bruce Takle. They are only too pleased to demonstrate the Pegasus and any of its new add-ons to your friends and colleges who may have been viewing your micro with interest.

Rex or Bruce can be located at 798-304. Remember Xmas is but 7 weeks away!

To those of you outside the Auckland area - your preadealers or reps are similarly available for demonstrations or to answer queries on the Pegasus.

If in doubt, give Computer Machinery a buzz or drop us a line and we will steer you in the right direction.



PRICE LIST (1 Nov 1981)

Product: Suggested Price to	
Retail Schools	
4K FEGASUS KITSET 698.00 521.00	
4N PEGASUS with BASIC 998.00 815.00	
6411 EXPANSION BOARD 895.00 689.00	
CARRYING CASE 49.00 48.00	
ROM EXPANSION 135.00 103.00	
GRAPSHCS OPTION 62.00 48.00	
PRINTER INTERFACE(cable + PIA) 53.83 53.83	
EXTENDED BASIC 120.00 120.00	
ASSEMBLER/DISASSEMBLER 70.00 70.00	
FASCAL 100.00 100.00	
FORTH 100.00 100.00	
WORD PROCESSOR 70.00 70.00	
CRAPHICS GAMES (CASSETTES)	
TAMK, GALAXYWARS, SNAKE, 12.00 each 12.00 ea	ch
Other cassette software	
Character creatur 12.00 each 12.00 ea	ch
Lines, Stack operations	
histogram	
EPSON PRINTERS	
MX80 (traction feed) 1318.68 999.00	
MX30 (traction & friction) 1510.08 1144.00	
Printer graphics option 217.80 165.00	

We welcome letters and comments for the newsletter. Our address is on the front page.