

THE G15 PMN FCM Spreadsheet
Source Code

by S.R. Weber

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reference to source location, which is:
norskesites.org/fic3/fic3inf3.htm
Published January 20th, 2017;
contains references to the Third Foundation
which was finalised December 15th, 2015.
G15 PMN is a programming language.
More info about it and its FCM approach
to structuring programming at the above link.

<h5415>

Spreadsheet	By S_R_Weber;
calculation	G15 pmn fcm
screen with	is used and
easy export	standard 3rd
of document	foundation
to b9edit	with one new
app#:	extension,bt,
3555558	b9font toning

<h5416>

This g15 pmn	regards
fcm program	program
is also a	structure;
kind of	for pattern
tutorial of	matching &
advanced	task steering
programming	cfr g15 pmn
in fcm, as	fcm robotapps

<h5417>

This fcm	program, and
program	it will have
organises fcm	an ease as
foundries in	regards the
ways showing	thinking
how you can	about it
do every	beyond other
type of	approaches

<h5418>

The toplevel	positions in
foundry has	spreadsheet
the keyboard	links to;when
and screen	this is put
handling; it	to '1', all
links to a	recalculation
"refreshfn"	takes place
which also	in positions

<h5419>

Each pos has	it also has
links to	an fnact that
two pairs of	can run thru
nodes holding	this formula
arraydata--	array & call
text & the	each foundry
"compiled	referred to
formula";	in it

<h5420>

Each operator	such foundry
in formula is	we set it to
"compiled"	passive &
into the	rather use
number of the	routines like
foundry--by	"performfn"
fnam--and to	to start them
call on any	as needed

<h5421>

A clue to	few variables
good fcm	are here used
structure is	except local
keep all data	to some sub-
"when speed	routines of
acceptable"	fnacts, which
inside the	drive all
nodes; thus,	events here

<h5422>

In the start	structures
of this fcm	are included,

application	on top of the
several	3rd found;
useful extra	these are
definitions	general & can
for numbers,	be called by
texts and fcm	fnacts

<h5423>

Compared to	package, as
the super-	finalized
model theory	2016::12::15,
physics	you find here
examples in	a much more
the standard	polished
third	and two-way
foundation	interface;

<h5424>

Since a	solution is
spreadsheet	to let the
can have	fcm loop
formulae	'pulse' to
which goes	put numbers
in both	thru in all
directions,	directions, &
the elegant	ctr-t toggle;

<h5425>

In the	many more
physics	kinds; you
examples,	can build on
the node use	this fcm
is of one	framework for
kind; here,	an enormous
we find	variety of
hints of	applications!

<h5426>

After careful	For loops are
meditation	generally the
over it, the	most dramatic
exact loop	action by a
structures	pc, and so
defined in tf	most in need
are kept with	of structural
nothing added	explicitness

<h5427>

All through	terminal
the making of	provided
this program	lively checks
over the 3	of all parts
weeks it	of program,

|took, the |as it grew,
|interactive |step by step,
|g15 pmn |naturally

<h5428>

|First-hand |readable form
|relation to |from car edit
|data in this | For more
|application's |fcm tutorial
|emphasized by |comments, pls
|putting data |fine-read all
|to cards in |the cards
|a fairly |that follow

<h5429>

columnspace= |export to
168. |b9edit;
|As you rework
|This |this program
|spreadsheet |into another,
|is tailormade |'columnspace'
|to provide |may have to
|seamless |be changed

<h5430>

advancedckms= |it can be
100. |changed
|{ie, it can
|This is the |be thought of
|qty given to |as a 'global
|activepause |setting'} by
|when you use |the function
|advancedck |setfastvar

<h5431>

advancedck= 1
|gives:flag ck
|as ck, it
|checks se
|keyboard,
|but allows
|a little
|time as well ex

<h5432>

advancedckms sh

activepause ck.

<h5433>

```
extratriplet= i1
|in:a b c i2
|gives:a b c i3
|a b c
```

```
s3 i1
s2 i2
s1 i3.
```

<h5434>

```
sorttwo= d
|in:a b d
|gives:x y gt
|action:
|highest of se
|the two are
|top of
|stack w.
```

<h5435>

```
filtercharnum= |instance of
|In:n, source, |asciinum
|destination |given {eg 122
|Action:source |for z} is
|quote is |removed; len
|copied over |updated; be
|to dest quote |sure dest is
|where any |roomy enough
```

<h5436>

```
sx d4
tx
s5
jx
lk basis
s9 ix
i9 setlenandnil
ye ex
```

<h5437>

```
1 i1
s4 jx
ay
```

```
11:2000000000 s6
```

<h5438>

```
i5 i6
```

i6 i4
eq ix

ya

d5 h4

<h5439>

i9 i4
i1 dc
gt ix
setlenandnil
ex

d5 lo.

<h5440>

tento= sx
|In:quantity
|Gives:number
|Action:gives
|ten raised to
|quantity;must
|be prechecked
|range {0->9} 1

<h5441>

ll:2000000000 10
i1 mm
ix |Loop is fast
gt |and so
se |presumes eg
|'makefit'
ex |as for input
lo.

<h5442>

deletechar= tx
|In:pos, quote |pos is 1->n;
|Action: |it exits
|deletes char |cleanly when
|in quote and |pos<1 or >n;
|updates |Complements
|length and |insertachar
|nilchar s5

<h5443>

jx isnotwithin
lk
s9 se

i5 ex
!1
1 jx
i9 ku

<h5444>

|From: |Qty:
jx i9
i5 i5
ad su
up up
|To: |including
f |nilchar
dc fw.

<h5445>

findcharnum= tx
|In:chnum,text |chnum is
|Gives: pos |ascii, eg
|Action: tells |97 for a;
|position 1->n |this handles
|of first |also
|occurrence of |basislen
|charnum, or 0 s5

<h5446>

jx d2
lk
s9

i9 basis
ye ex

<h5447>

i5 s8
i5 i8
ye

jx d2
up
i9 basis
aw ex

<h5448>

i8
jx

su.

<h5449>
rightalign= rightalign
^.

235
sz
&& k1

<h5450>
rightalign= i3
|In:newlen,txt lk
|Gives:newtxt s2
|Action:Adds |len:i2 new:i1
|startspaces; rightalign
|newlenmax:232 lk
s3 f
s1 s4

<h5451>
i1 i1
i4 iswithin
ns n?
i1 |txtlen mustnt
i4 |exceed newlen
setlenandnil se
i2 |nilstr ok
1 ex

<h5452>
|From: ad
i3 up
up
|To: |Qty:
i1 i2
i2
su
i4 fw.

<h5453>
fixsign= |In other
|In:quote |words, use
|Action:the |makenumber
|makenumber |then this
|uses ! for |after when
|signed nums; |a program
|use this to |wants dash
|make it dash |instead

<h5454>

up se
t7

 ex

j7
lk
33 45
eq j7
n? kl.

<h5455>

Using some of	of 32-bit
the previous	functions to
functions, &	parse, calc,
culimating in	& format nums
esp fetchnum	{not 'undef'}
formatnum,	numgroupsign
decimalmm etc	and/or
next is a set	'decimalsign'

<h5456>

decimalsign=	togglenumsign=
46.	^decimalsign
Ascii dot:46	tx
Ascii ',':44	^numgroupsign
numgroupsign=	sx
44.	decimalsign
very fast	numgroupsign
global vars	read on:>>

<h5457>

jx	While USE of
setfastvar	them is fast,
ix	dot/comma
setfastvar.	setting is
For more	typically a
rapid change	"global
of them, put	setting",¬
warps to vars	done in loops

<h5458>

makenumr14tx=	makenumr14tx
^.	

14
sz
&& kl

<h5459>

makenumr14=	makenumber
In:number	s3
Gives:quote	This is for a

Action:right	whole number,
aligns	no groupsigns
number;	makenumr14tx
employs '-'	lk
when <0	s1

<h5460>

45	d3
----	----

	f
f3	f3
lk	kl
33	
eq	
n?	sh

<h5461>

14	From:
i1	i3

ns	up
----	----

<h5462>

To:	Qty:
15	i3
i3	lk
lk	fw
su	14
i1	i1
	setlenandnil
ad	i1.

<h5463>

numberlike=	s1
In:quote	whole numbers
Gives:flag	only;
Action:checks	not for dots
whether at	or commas;
least	dash ok
BEGINNING is	i1
numberlike	lk

<h5464>

ye	f1
	lk
	s3
d2	
	f1
	up

basis lk
ex s5

<h5465>

i3 |These funcs
48 |are for
57 |economical
iswithin |work etc;num
i3 |'undefined'
45 |is relevant
eq |mostly in
or |'tech' progs

<h5466>

i5 or
48
57
iswithin

i5
n? an.

<h5467>

getnumlike= |1, it also
|In:quote |calls intonum
|Gives:flag, |{at flag
|number |basis it
|Action:same |gives basis
|as numberlike |as num}
|in flag, but
|when flag is tx

<h5468>

jx basis
numberlike basis
|Note: a text ex
|with digits
|first, then
|chars, gives dance
|flag 1, num 0 jx
d3 intonum.

<h5469>

leisurenum= s1
|In:quote |both dots and
|Gives:flag |commas can be
|Action:loose |at 2nd pos;
|check as to |dash can be
|whether |at first pos
|BEGINNING i1
|could be num; lk

<h5470>

ye f1
lk
s3
d2 f1
up
basis lk
ex s5

<h5471>

i3
48
57
iswithin
i3
45
eq
or

<h5472>

i5 or
48
57
iswithin

decimalsign

i5
eq

<h5473>

numgroupsign or
i5
eq
or

i5

n? an.

<h5474>

digitfillstx1= digitfillstx1
^.
|For these |pls call them
|number |each with a
|routines, |quote that
35 |isn't the
sz |output of the
&& |SAME func :-)
kl

<h5475>

digitfills= 45
|In:n,numtxt t5

Gives:newtxt	Eg, with n=2:
n=qtydecimals	"1" >"001"
or 0;spaceles	"-12" >"-012"
numtxt,can've	"1234">"1234"
dash, gets	" " >"000";
enough digits	no groupsign

<h5476>

tx	lk
s3	s2
digitfillstx1	jx
lk	up
f	lk
txt at stk	j5
sx	eq
jx	t6

<h5477>

f3	Ascii basis:
At least 1	48
digit pre dot	il
j6	ix
ad	
i2	fc
maxofthis	j6
s1	n?

<h5478>

d4	il
	ix
sign first	setlenandnil
	Qty digits:
j5	i2
ix	j6
up	su
kl	s8

<h5479>

from:	ad
jx	i8
up	
j6	su
ad	up
to:	qty:
ix	i8
il	fw.

<h5480>

indecimalsign=	must've space
In:n, quote	Normally, use
Action:	'digitfills'
{handles n	1st so for
basis}; n pos	sure num has

from right	digits BOTH
'decimalsign'	left & right
put in; quote	of position n

<h5481>

tx	That is to
s5	say, whole
	numbers are
i5	correctly
n?	handled by
	this

se	ex
----	----

<h5482>

& &	i4
s4	jx
	jx
	lk
decimalsign	i5
i4	su
up	up
kl	insertachar.

<h5483>

innumgroup=	innumgroup=
^.	
Ample size	Textspace for
	commagrouped
	number for
35	both next
sz	routines
&&	kl

<h5484>

winumgroup=	s4
In:numquote1	Must be an ok
Gives:	number, can
numquote2	be &0& but
Action: for a	not &&; no
Whole num,can	xtra chars;
have '-',puts	Subroutine in
in groupsigns	'innumgroup'

<h5485>

i4	j2
lk	eq
s5	t3
45	innumgroup=
t2	lk
i4	stk:result
up	f
lk	s1

<h5486>

j3	h1
n?	j2
	i1
	kl
	h4
	i5
	dc
d8	s5

<h5487>

Calc new len:	
i5	
dc	
3	Acceptable
di	input eg &1&
i5	but not &&
ad	
s3	

<h5488>

At stk:result	i1
	sx

i3	
j3	
ad	
d	i5
setlenandnil	s2

<h5489>

11:2000000000	q3
i2	i3
i4	n?
wk	
i3	se
ix	
kw	ex

<h5490>

q2	d5
i5	
i2	numgroupsign
su	i3
3	ix
mo	ya
	q3
ye	lo.

<h5491>

innumgroup=	tx
-------------	----

```
|In:n1, txt1    s1
|Gives: txt2    |{n1 can be 0}
|Puts fastvar  |txtllen > 0:
|numgroupsign  |at least 1
|to decimal    |digits before
|or whole num; |& n1 digits
|n1=qtydecimal |after decsign
```

<h5492>

```
i1          jx
ye          winnumgroup
|Note, in any |can be signed
|func using fw|num with dash
|top important|Decimalsign
|to give the  |is fastvar
|right input  |'decimalsign'
d3          ex
```

<h5493>

```
|When qty of
|decimals is  |w/qtydecimals
|eg 2, then   |2 & dot=","
|least input  |then "0,69"ok
|len is 4:    |also "-0,69",
|two decimals,|but not ",69"
|one sign, &  |In any case,
|one digit    |prechk input!
```

<h5494>

```
|Give the jx   i2
|len that     i1
|fits         up
|winnumgroup: su
jx           f
lk           s3
            jx
s2           kl
```

<h5495>

```
|Call
|winnumgroup:
jx
winnumgroup
|for this
|uses initial
|leninfo only
sx
```

<h5496>

```
|Copy decimals lk
|From:         ix
jx            ad
i3            up
```


ad |Qty:
up f1
|To:
ix fw

<h5497>
|Finally, ix
|assert new setlenandnil
|length for
|result
f1
ix
lk
ad ix.

<h5498>
scaleint= |decimals so
|In:n1,n2,n3 |it gets n2
|Gives:n4 |decimals, by
|Action:scales |rounding&div
|a whole, ie, |or by mm w/10
|integer, num, |n2 or n3 can
|n3, imagined |be basis;can
|to have n1 |be equal,too

<h5499>
s3 d2
s2
s1

i1
i2
eq i3
n? ex

<h5500>
i1 i3
i2 i1
le i2
su
tn
tento
rd
d8 ex

<h5501>
|Scaleint is i3
|good when i2
|internal nums i1
|w/uneq decim su
|qty are to be
|put into eg tento
|decimalmm

|or decimalrd mm.

<h5502>

decimalscale=	w/a number,
In:n1 txt	with/without
Gives:number	'decimalsign'
Action: where	no spaces or
n1 is qty of	groupsigns,
DESIRED	gives rightly
decimals, &	scaled num;
txt a quote	CHANGES TXT!

<h5503>

tx	qty decimals
sx	eg set to 2:
Rounds number	"1234567,89":
when too many	123456789
decimals;len	" -69,9099":
can be 0; eg,	-6991
w/decimalsign	"2323":232300
set to ", " &	and "0,0":0

<h5504>

jx	basis
lk	
s1	This is
	subroutine
i1	in fetchnum
ye	
d2	ex

<h5505>

decimalsign	jx
jx	intonum
findcharnum	t8
s4	
i4	i4
jx	ye
handles basis	
deleteachar	d5

<h5506>

basis	i1
ix	i4
j8	
	su
	ix
scaleint	
	j8
ex	scaleint.

<h5507>

fetchnumtx1= fetchnumtx1
^.

35
sz
&& k1

<h5508>
fetchnum= |Txt must have
|In:n1,n2,txt |no spaces;can
|Gives:number |have dash;can
|Action:n1 is |always have
|flag"is group |'decimalsign'
|signs ok?";n2 |Result scaled
|is basis or |Note:txt may
|qty decimals; |be changed!

<h5509>
tx numgroupsign
s4 jx
s5 fetchnumtx1
|Avoid 'undef' lk
f
i5 tx
n?
d7 filtercharnum

<h5510>
i4 |dots and/or
jx |commas have
decimalscale. |been clipped
|Fetchnum is |as for trail
|eg the main |& lead spaces
|called after |It rounds
|typed-in |when too many
|numbers with |decimals, etc

<h5511>
formatnum= |rightaligned
|In:n1,n2,n3 |so len=14 for
|Gives:quote |all results;
|Action:n3=num |'decimalsign'
|N1=flag "use |is fastvar
|groupsigns?"; s3
|N2=decimalqty s2
|n2=0:wholenum s1

<h5512>
i2 |avoid'undef'
i3
makenumber tx

f	i2
fixsign	jx
qtydecimals	qtydecimals
tx1=>newtx	tx1
digitfills	indecimalsign

<h5513>

i1	i2
n?	jx

	qtydecimals
	tx1=>newtx
	innumgroup
d4	tx

<h5514>

14	newlen
----	--------

	tx1=>newtx
jx	rightalign.

<h5515>

To ad or su	decimalmm &
decimalnums,	decimalrd,di;
use scaleint	Beware: many
first, then	decimals
ad or su; to	limit upper
do mm,rd & di	range of rd &
the decimal	di far more
versions are	than for mm

<h5516>

decimalmm=	s9
In:n1,n2,a1	normalize two
Gives:num	numbers to
As 'n1 n2 mm'	same qty of
but a1 is	decimals
'qty tento':	to use these
where qty is	s4
qty decimals	s3

<h5517>

i3	i3
i9	i9
di	mo
s5	t5
i4	i4
i9	i9

di mo
s6 t6

<h5518>

i5 ad
i6 i6
mm j5
i9 mm
mm
i5
j6
mm ad

<h5519>

j5 |See note at
j6 |decimalrd
mm |about whole
i9 |vs decimal
rd |numbers

ad.

<h5520>

decimalrd= s9
|In:n1,n2,a1 |note: RANGE,
|Gives:num |number must
|As 'n1 n2 rd' |be capable of
|but a1 is |being mm with
|'qty tento': |a1
|where qty is s4
|qty decimals s3

<h5521>

i3 i3
i9 i9
di mo
s5 t5
i4 i4
i9 i9
di mo
s6 t6

<h5522>

i9 ad
ni |Note that
i5 |the formatnum
mm |&fetchnum are
|for econ apps
i9 |{unnecessary
j5 |w/technumber
mm |'undefined'}

<h5523>

i9	rd.
i6	Note:g15 pmn
mm	prefers to
	order reality
	by WHOLE
	numbers; but
j6	SOME use of
ad	decimals ok

<h5524>

decimaldi=	s9
In:n1,n2,a1	NOTE: range,
Gives:num	number must
As 'n1 n2 di'	be capable of
but a1 is	being mm with
'qty tento':	a1
where qty is	s4
qty decimals	s3

<h5525>

i3	i3
i9	i9
di	mo
s5	t5
i4	i4
i9	i9
di	mo
s6	t6

<h5526>

i9	ad
ni	
i5	
mm	

i9

j5

mm

<h5527>

i9	di.
i6	when that
mm	which is
Decimalrd&di	divided at is
are for div	a whole num,
by decimnums;	instead use
j6	ordinary 'rd'
ad	and 'di'

<h5528>

The foregoing	or without
cards contain	'groupsigns'

a number of	{eg comma}
routines for	and with or
elegant	without
parsing and	decimal dot,
formatting of	cfr fetchnum,
numbers with	formatnum,etc

<h5529>

parseyenter=	all give flag
In:quote	dance; while
Gives:flag	any other,
Action:parses	flag basis;
quote after	this clips
eg l9 so that	trail,lead
y & Y, and a	s3
pure <enter> ,	dance

<h5530>

i3	i3
lk	cliptrail
n?	clipleading
{eg use kb	uppercase
se	up
before l9}	lk
ex	89
sh	eq.

<h5531>

solvegram=	Can be used
In:pos,warp	instead of wk
Gives:num	when basis is
Actions:reads	to be kw'ed
content at	to same place
pos plus warp	afterwards
which is then	sx
set to basis	s8

<h5532>

i8	solvegram: as
ix	Foundation's
wk	telegrams
	{in Asimov's
0	scifi} which,
i8	after being
ix	read, at once
kw.	dissolves

<h5533>

flipgram=	then applied
In:pos,warp	to the
Gives:num	content, so
Actions:reads	the 'telegram
content at	after read is

```
|pos plus warp |flipped'  
|and "n?"      sx  
|operator is   s8
```

<h5534>

```
i8  
ix  
wk  
f  
n?  
i8  
ix  
kw.
```

<h5535>

```
fnextraval=    12  
|in:fn#  
|gives:number  
|Action:picks  
|extravalue  
|from main  
|triplet  
fnwarp          wk.
```

<h5536>

```
fetchllmain=  
|In: fnwarp  
|Gives: link1  
|main value
```

```
50  
wk  
fnmainval.
```

<h5537>

```
llmaintobasis= 0  
|In: fnwarp  
|Action: link1  
|main value,  
|pos 10, is    50  
|set to basis  jx  
wk  
tx              setfnmainval.
```

<h5538>

```
llmaintodance= 1  
|In: fnwarp  
|Action: link1  
|main value,  
|pos 10, is    50  
|set to basis  jx  
wk  
tx              setfnmainval.
```


<h5539>

```
link2trlwarp= 51
|In: fnwarp   wk
|Gives: warp  fnwarp
|Action: picks
|link#2, finds
|warp to this,
|and adds 10  10
|to triplet#1 ad.
```

<h5540>

```
performfn=      |when called
|In:tr#,fnwarp  |fn has its
|Action:to      |active flag
|perform the    |to basis, in
|fnact of a     |contrast to
|triplet of     |'permuteacts'
|any given      tx
|foundry, even  f
```

<h5541>

```
s8              i1
tripletpos
up              n?
jx
wk             se
```

```
s1             ex
```

<h5542>

```
i8             fnactlist
jx             lk
|Input to     ay
|fnact
                |And,
                |do it,
|fnact#:      |PerFect:
i1            pf.
```

<h5543>

```
doit=         |can also be
|In:fundname   |used as
|Action:calls  |programmers'
|the fnact in  |checking,
|the first     |interactively
|triplet of    |of some types
|fund named    |of funds with
|this;         |fnacts in'em
```

<h5544>

```
fnamw
```

1

w

performfn.

<h5545>

toggelfn= tx
|In: fn# 49
|Action: jx
|toggles the wk
|active-flag n?
|of a foundry 49
|as for acts jx
fnwarp kw.

<h5546>

pffundin= |fnact in this
|In:value,tr#, |triplet {like
|fnwarp |performfn};
|Action: Puts tx
|value n to f
|extranumber sx
|of triplet, tripletpos
|and calls on f

<h5547>

s3 f
u2 s5
jx
kw n?

f3 se
jx
wk ex

<h5548>

ix fnactlist
lk
ay

jx
|Tr#,fnwrp

|Func#
i5 pf.

<h5549>

pffundintwice= s4
|In:firstvalue s3
|secondvalue s2
|tr# fnwarp s1

Action:exact	ie, first w/
like pffundin	firstvalue,
but does it	then again
twice over	w/secondvalue

<h5550>

i1	i2
i3	i3
i4	i4

pffundin pffundin.

<h5551>

pffundinscale=	qty5 decimals
In:qty1,qty5,	to qty1 first
val,tr#,fnwrp	Then, as a
Action: as	second number
pffundin, but	it gives qty1
does scaleint	to pffundin;
of val to	simplifies
convert from	formulacalc

<h5552>

s5	presumes that
s4	input has
s3	already been
t5	verified
s1	j5
qty1 is i1	i1
qty5 is j5	i3
val is i3	scaleint

<h5553>

i4	i1
i5	i4
	i5

pffundin pffundin.

<h5554>

pffundgives=	from same
In:tr#,fnwarp	triplet &
Gives:value	gives it
Action: Like	tx
performfn,	f
does the act,	sx
then picks	tripletpos

|extravalue s3

<h5555>

basis f
|In case s5
|fnact
|absent n?

f3 se
jx
wk ex

<h5556>

sh fnactlist
lk
ay

ix

jx

i5 pf

<h5557>

i3
u2

jx wk.

<h5558>

pffundingives= |extraval from
|In:n,tr#,fwrp |triplet again
|Gives:value |& puts to stk
|Action: Puts tx
|n to extraval f
|of triplet, sx
|runs this act tripletpos
|then fetches s3

<h5559>

|In value i3
|at stk u2

jx
kw

<h5560>

basis f
s5
n?

f3 se
jx
wk ex

<h5561>
sh fnactlist
lk
ay

ix

jx

i5 pf

<h5562>
i3
u2

jx wk.

<h5563>
txquotefnaya= txquotefnaya
^.

250
sz
&& kl

<h5564>
quotefnaya= |a quote out
|In:fn# |of chars in
|Gives:quote |an fnaya
|Action: with |style array;
|len as #1 & |be sure that
|WITH A NIL |maxlen is
|AFTER IT, |ca 232 when
|this makes |using this

<h5565>
s5 11:2000000000
txquotefnaya
lk |This also

s4 |handles empty
|arrays
0 i1
f4 i5
kl fnaya

<h5566>

f d2
m1
i4 twobillion
ya s1

lo

ye i4.

<h5567>

maxfundnum= &&
10000. fundnet
150 kl
maxfundnum
mm 150
200 maxfundnum
ad fundnet
sz wwymatrix

<h5568>

fundnet |than enough
lk |of nodes;
thisfcmnet |next, we use
kl |4x135 by
|For this |analogy to
|spreadsheet, |the 30x50 fcm
|this is |examples
|much more |inside tf

<h5569>

maxfundnum fcmindqty
50 basisthis
ad maxfundnum
sz thisfcmnet
lk
&& fcindex
fcindex lk
kl initwarpindex

<h5570>

pos4x135= |and where
|in:x 1->4; |four extra
| y 1->135 |nodes are
|Gives: fn# |made for
|Suitable |each, 2 pairs
|when 4x135 |of arrays

|nodes are s9
|the 1st ones sx

<h5571>

ix ad.
dc
5
mm
i9
dc
20
mm

<h5572>

warp4x135= ix
|in:x 1->4; dc
| y 1->135 5
|Gives: warp mm
|{'9' looks a i9
|bit like y;} dc
s9 20
sx mm

<h5573>

ad

0
w
thisfcmnet
lk
w9.

<h5574>

mainget4x135= ix
|in:x 1->4; dc
| y 1->135 5
|Gives: main mm
|value of i9
|triplet#1 dc
s9 20
sx mm

<h5575>

ad

10
w
thisfcmnet
lk
ww.

<h5576>
extraget4x135= ix
|in:x 1->4; dc
| y 1->135 5
|Gives: extra mm
|value of i9
|triplet#1 dc
s9 20
sx mm

<h5577>
ad

12
w
thisfcmnet
lk
ww.

<h5578>
mainput4x135= ix
|in:value,x,y dc
|Action: puts 5
|in new value mm
|of tri#1 i9
s9 dc
sx 20
|Stack:value mm

<h5579>
ad

10
w
thisfcmnet
lk
YY.

<h5580>
fund4x135= |for each
|in:fn# |main position
|gives:x,y
|where, in
|contrast to
|fund30x50, |also,
|we've five |4x135 funds
|extra funds |begin at 1

<h5581>
5 w
di

f
4 4
mo di
up up.

<h5582>
columnheader= 64
|In: number i3
|Action: shows ad
|Column letter jx
|at screentop up
s3
& &
tx kl

<h5583>
jx 59
m3
columnspace 60
mm bt
110 boldbx
ad
f 255
sx bt.

<h5584>
rownumbercls= s4
|In: a, b s3
|Action: this
|clr prev#, &
|shows row# b i4
|when startrow makenumber
|#a is on top
|of screen tx

<h5585>
i4
i3
su
33
mm
87
ad
sx

<h5586>
766 ix
ix 19
ad
5 80

su

807 rt

<h5587>

jx

766

ix

bx.

<h5588>

allrownums= sx

|In: start#

|Action:

|clears

|earlier

|romnumbers

|and shows

|new ones

<h5589>

11:21 rownumbercls

ix

ix

m1

ad lo.

<h5590>

rownumber= s4

|In: a, b s3

|Action: Draws

|rowlines &

|shows row# b i4

|when startrow makenumber

|#a is on top

|of screen tx

<h5591>

jx 33

mm

766

87

i4 ad

i3 f

sx

su bx

<h5592>

14 764

ix ix
20 21
ad ad

ad 180
rt.

<h5593>

sayctractive=
|Action: says
|calculation
|as toggled by
|ctr-t is
|active
|on righthand
|of screen

<h5594>

918 &ACTIVE&
189 920

1000
205

80 195
rt boldbx.

<h5595>

sayctrtslash=
|Action: says
|calculation
|as toggled by
|ctr-t is
|"////////"
|on righthand
|of screen

<h5596>

918 &////////&
189 920

1000
205

80 195
rt boldbx.

<h5597>

spreadinfo= 815

|Action: tells 62
|main keys at
|right part of
|screen and
|tells ctr-t
|is 'active'
&Navigate:& bx

<h5598>

&PgUp& &Arrows&
815 815
87 137
bx bx
&PgDn&
815
112
bx

<h5599>

&CTR-T:& &calc,&
920 920
100 150
bx bx
&Toggle&
920
125
bx

<h5600>

&now:& &_____&
920 920
170 204
bx bx
&_____&
920
200
bx sayctractive

<h5601>

&<HOME>:& &formula&
815 815
180 230
bx bx
&Enter& &such as&
815 815
205 255
bx bx

<h5602>

^a1 b4 add &or, longer,&
815 815
280 330
bx bx

^d3 d2 sub	^c1:c5 sum
815	815
305	355
bx	bx

<h5603>

^85 mul 5 div	&to put in&
850	815
380	450
bx	bx
&<ENTER>:&	^text, numbers
815	815
425	475
bx	bx

<h5604>

&<F3>:&	&<F8>:&
815	815
520	590
bx	bx
&Store, etc&	^Decimals, etc
815	815
545	615
bx	bx

<h5605>

&<INSERT>:&	&add/rm rows&
815	815
660	710
bx	bx
&Repeat char/&	&<ESC>: exit&
815	815
685	750
bx	bx.

<h5606>

spreadscreen=	Comment: look
Action: shows	at source for
startup blank	'rt' & we see
spreadsheet	that given
screen with	a b c d e, it
ctr-t toggle	starts at a b
shown to be	but completes
'active';	before c d

<h5607>

0	1
0	1
1024	1023
768	50
255	0

rt rt

<h5608>

765	1
50	51
1023	1
767	767
80	0

rt rt

<h5609>

2	2
51	766
14	1023
766	766
0	0

rt rt

<h5610>

15	11:4
73	
765	i1
75	columnheader
0	

rt lo

<h5611>

11:21	rownumber
-------	-----------

1	
f	
m1	lo

ad spreadinfo.

<h5612>

positionname=	input with
In: x, y	x as 1 to 4
Gives: text	and y as 1 to
Action: in	135; fnnames
own quotespac	have mininum
gives "vala1"	length 3
to "vald135"	s6
given	s5

<h5613>

^valxnxxxxxxxx

tx	kl
i5	i6
96	makenumber
ad	sx
jx	ix
4	lk
ad	t7

<h5614>

From:	Assumption:
ix	that input
up	is correct!

To:	Qty:
jx	j7
5	
ad	fw

<h5615>

j7
4
ad

jx
setlenandnil jx.

<h5616>

parseposname=	assumes
in:quote	exact length;
gives:x,y	{basis x,y
Action: For	means that
lowercase a1	it didn't
to d135 gives	parse};
x y, x=1 to 4	
y=1 to 135;	s4

<h5617>

0	iswithin
0	n?
i4	
lk	se
f	
s5	
2	
4	ex

<h5618>

f4	iswithin
	n?
lk	

f se
s5

97
100 ex

<h5619>

f4 iswithin
up n?
lk
se

49
57 ex

<h5620>

f4 iswithin
|Easy convert n?
|num up to nil
cn se
f
s7
1
135 ex

<h5621>

sh i5
96
su

sh i7.

<h5622>

colonrange= tx
|in:text |Assumes
|gives:fromfn# |lowercase;
|tofn# |This gives
|action:4x135 |signed1 twice
|format of |in case of eg
|ranges such |outrange or
|as d1:d9 |lack of colon

<h5623>

jx iswithin
lk
s5 d3
|a1:a1 len 5
|d135:d135 9
i5 oneminus

5 oneminus
9 ex

<h5624>

&:& ye

3

jx d3

3

ad

in oneminus

s8 oneminus

i8 ex

<h5625>

i8 |From,to,qty:

jx jx

su up

s7 ix

up

&x:xxx& i7

dc

sx fw

<h5626>

i7

dc

ix

setlenandnil

ix

parseposname

s2

s1

<h5627>

|From,to,qty: i5

i8 i7

up su

fw

ix

up

<h5628>

i5 s4

i7 s3

su

ix

setlenandnil

ix

parseposname

<h5629>

i1 d3
ye

i3
ye oneminus
oneminus

an ex

<h5630>

i1
i2
pos4x135
|Everything
|Is Perfect
i3
i4
pos4x135.

<h5631>

ministkputin= tx
|in:tr#,fnwarp tripletpos
|new value to s3
|ministk{365} |Eg call via
|from extraval |performfn in
|of this tr#; |a passive fn;
|stkptr:main |link#1 is to
|value of tr#1 |fnaya datafns

<h5632>

10 |Note that
jx |when stack
wk |full, it
s1 |doesn't put
|stkpointer |in the value
i1 se
365
ge ex

<h5633>

i3 f1
u2
jx 50
jx
wk
|Array
wk
|New value fnyay

<h5634>

f1

10 &minstkputin&
jx 3355
kw. fnactcherish

<h5635>

minstkget= tx
|in:tr#,fnwarp tripletpos
|value from s3
|minstk{365} |Eg call via
|to extraval |performfn in
|of this tr#; |a passive fn;
|stkptr:main |link#1 is to
|value of tr#1|fnaya datafns

<h5636>

10 |Note that
jx |when stack
wk |empty, it
s1 |signals this
|stkptr is i1|by
0 |<--basis
i3 jx
u2 kw

<h5637>

i1 m1
1
lt

se

10
jx
kw

ex

<h5638>

i1 fnaya

|value
|stored;

50 i3
jx u2
wk jx
|Array kw.

<h5639>

&ministkget&
3358
fnactcherish

<h5640>

ministkreset= basis
|in:tr#,fnwarp 10
|Action: sets jx
|stkptr, main kw.
|value of tr#1
|to basis &ministkreset&
tx 3340
sh fnactcherish

<h5641>

tenandextra= tx
|in:fn#
|gives:n1,n2 37
|action:picks jx
|mainvalue in wk
|tr#10 & tr#1 12
|extravalue jx
fnwarp wk.

<h5642>

execformbit= s3
|in:qtydecim, s2
|type, number, s1
|warp to mstk s9
|Subroutine of |typenumbers:
|formcalcloop |1 num to stk
|invokes real |2 pos to stk
|calculations |3 do operator

<h5643>

|For type#1, |fetch pos12 &
|number & qty |harmonise qty
|decimals each |decim &'push'
|have a type#1 |for type#3,
|so 'pushstk' |just call the
|in tr#1 of |fnact in
|ministk; |triplet1 of
|for type#2, |the operator

<h5644>

i1 i2
1 dance
eq i3
n? pffundin

d5 ex

<h5645>

i1 i9
2 i2
eq tenandextra
n? dance
i3
pffundinscale

d7 ex

<h5646>

i1 dance
3 i2
eq fnwarp
n? performfn

d5 ex.

<h5647>

formcalcloop= t5
|in:qtydecim, sx
|arrayfn#, s9
|warp to mstk |i9 qtydecimal
|Subroutine of |for the field
|formcalc;Goes |j5 is warp
|thru compiled |to ministk;
|formula&calcs |ix:fnaya fn#

<h5648>

l1:2000000000 i5
|i5=type:1 num n?
|2 pos, 3 func
i1
ix se
fnaya
s5
h1 ex

<h5649>

i1 i9
ix i5
fnaya i8
s8 j5
execformbit

|i8 is value lo.

<h5650>

formcalc= |refreshfn,

```
|in:tr#,fnwarp |which tells
|EVERY 4x135 |this to act;
|POSITION in |l#2tx #3comp
|spreadsheet |l#4stk t#1:
|has this as |type; value
|MAIN fnact; |t#10 main:
|link#1 is to |qtydecimals
```

<h5651>

```
tx 3
sh eq
|stk:val1 qty1 n?
|val2 qty2 etc |TYPE3=FORMULA
|{qtydecimals}
10 se
jx
wk ex
```

<h5652>

```
50 fnmainval
jx
|Refreshfn; n?
|this resets
|ministk,calcs se
|&pops 1 &puts
|it to pos 12
wk ex
```

<h5653>

```
52 53
jx jx
wk wk
fnwarp
|This is the |This is warp
|fnaya with |to ministk
|compiled form
s5 t6
```

<h5654>

```
|Our "compiled |is fund# to a
|formula" has |pos eg d135;
|type1,num1, |#3 is fund#
|type2,num2,, |to operator
|until type |eg "add" or
|basis; the |"sum" {which
|types: #1 is |pops 'from'&
|number; #2 |'to'from stk}
```

<h5655>

```
|Do the 10
|reset of |triplet#10
|ministk in |has fnact for
|order that |reset stk
```

|each formula j6
|can start |fn# for
|cleanly with |ministk
|it: performfn

<h5656>

|calculate: |Get result:
37 5
jx j6
wk pffundgives
|qtydecimals sh
i5 5
j6 j6
formcalcloop pffundgives

<h5657>

|Put result |The way the
|to extravalue |formulas are
|of main tripl |handled, each
|in pos fund: |operator gets
| & gives pair
12 |of {result,
jx |qtydecimals}:
kw. |SAME qtydecim

<h5658>

&formcalc& |This will
812 |run compiled
|form of
|formula when
|refresh=yes
|and when
|type=3,comp
fnactcherish |formula

<h5659>

makespreadfns= |so two pairs
|Action: sets |of following
|up the |can be used
|spreadsheet |by fnyay &
|nodes with |fnaya:storing
|names al up |text; and
|to d135; 5 |compiled form
|for each, |of formula

<h5660>

100000 4
setfundlevel 135
|Above 4x135 pos4x135
|we have fn# 5
|"refreshfn"; ad
|right next |'5', because
|we have fn# |2 pairs array

"ministk" t5

<h5661>

11:135 positionname
11:4 fneasyact
|Content here: |comment in 2
basis |cards ahead>
812 4
basis |qty links
i2 47
i1 adjustfund

<h5662>

j5 f
50 51
adjustfund adjustfund
|L#2 & #3 to |l#4: to the
|data & comp: |ministack
thisfund u2
lk 52
up adjustfund

<h5663>

|tr#1, main: j5
|type 1 num, 11
|2 txt, 3 form ad
|extra: recent |l#4:ministk,
|value type1&3 |plus 1 plus
|tr#10, main: |10 for data
|quantity 53
|decimals adjustfund

<h5664>

11:4 fundlevel
basis danceup
&safebank& |AS FOR 4x135:
fneasy lo
|link#2 w/data
|fnaya has
|len in pos#1
lo lo

<h5665>

3500000 |This is
setfundlevel |linked to
|as #1 from
|all 4x135,
|and:
basis |next,plus 10,
&refreshfn& |is linked to
fneasy |as #4

<h5666>

3600000 basis
setfundlevel &ministkarray&
|Next, 10 fns fneasy
|365 values 11:9
|stack;fnaya; basis
|this is after &ministkdata&
|refresh & is fneasy
|#4 in 4x135 lo.

<h5667>

makespreadfns |acts:#1put,#5
|Main triplet |get,#10reset
|value stkptr: 3358
basis 23
3355 adjustfund
basis 3340
&ministk& 38
fneasyact adjustfund

<h5668>

thisfund |Qty links:
lk 1
togglefn 47
|usually adjustfund
|called via &ministkarray&
|such as fnam
|performfn; 50
|values 365 adjustfund

<h5669>

databas4x135= warp4x135
|in:x, y |l#2:len,text,
|action:sets |completenil
|basis as |l#3:type,val,
|first of the |type,val,
|fnaya arrays |etc, up until
|at link#2 & |type nil
|link#3 tx

<h5670>

0 0

1 1

51 52
jx jx
wk wk
fnyay fnyay.

<h5671>

addact= |Qty decimals
|in:tr#,fnwarp |same and ad
|With ministk |is good for

as link#1,	all nums
adds two	Normally
topmost &	called via
puts result	such as
back	'performfn'

<h5672>

50	5
wk	ix
fnwarp	pffundgives
sx	decimalqty
	sh
	5
	ix
sh	pffundgives

<h5673>

5	ad
ix	Ad is superb
pffundgives	for all num
decimalqty	types when
s9	decimqty same
5	1
ix	ix
pffundgives	pffundin

<h5674>

i9
decimqty
always on
top of
ministk
1
ix
pffundin.

<h5675>

25000000	basis
setfundlevel	328
Name same as	basis
in formula:	&add&
	fneasyact
&addact&	thisfund
328	lk
fnactcherish	togglefn

<h5676>

Qty links:
1
47
adjustfund
&ministk&
fnam

50
adjustfund

<h5677>

mulact=	Qty decimals
in:tr#,fnwarp	same, in this
With ministk	approach,
as link#1,	when such
multiplies	functions are
topmost &	called via
puts result	such as
back	'performfn'

<h5678>

50	5
wk	ix
fnwarp	pffundgives
sx	decimalqty
	sh
	5
	ix
sh	pffundgives

<h5679>

5
ix
pffundgives
|decimalqty
s9
5
ix
pffundgives

<h5680>

i9	decimalmm
----	-----------

tento

1
ix
pffundin

<h5681>

i9
|decimqty
|always on
|top of
|ministk
1
ix
pffundin.

<h5682>

	basis
	339
Name same as	basis
in formula:	&mul&
	fneasyact
&mulact&	thisfund
339	lk
fnactcherish	togglefn

<h5683>

Qty links:
1
47
adjustfund
&ministk&
fnam
50
adjustfund

<h5684>

subact=	Qty decimals
in:tr#,fnwarp	same and ad
With ministk	is good for
as link#1,	all nums
subs topmost	Normally
from 2nd to	called via
top & puts	such as
result back	'performfn'

<h5685>

50	5
wk	ix
fnwarp	pffundgives
sx	decimalqty
	sh
	5
	ix
sh	pffundgives

<h5686>

5	w
ix	
pffundgives	
decimalqty	
s9	
5	
ix	
pffundgives	

<h5687>

su

1
ix
pffundin

<h5688>

i9
|decimqty
|always on
|top of
|ministk
1
ix
pffundin.

<h5689>

basis
321
|Name same as basis
|in formula: &sub&
fneasyact
&subact& thisfund
321 lk
fnactcherish togglefn

<h5690>

|Qty links:
1
47
adjustfund
&ministk&
fnam
50
adjustfund

<h5691>

divact= |Qty decimals
|in:tr#,fnwarp |same, in this
|With ministk |approach,
|as link#1, |when such
|rounddivs 2nd |functions are
|on topmost |called via
|puts result |such as
|back |'performfn'

<h5692>

50 5
wk ix
fnwarp pffundgives
sx |decimalqty
sh

5
ix
sh pffundgives

<h5693>
5
ix
pffundgives
|decimalqty
s9
5
ix
pffundgives

<h5694>
w decimalrld

1
i9 ix
tento pffundin

<h5695>
i9
|decimqty
|always on
|top of
|ministk
1
ix
pffundin.

<h5696>
basis
331
|Name same as basis
|in formula: &div&
fneasyact
&divact& thisfund
331 lk
fnactcherish togglefn

<h5697>
|Qty links:
1
47
adjustfund
&ministk&
fnam
50
adjustfund

<h5698>

divwact=	of decimalrd,
in:tr#,fnwarp	plain rd is
With ministk	used; this
as link#1, as	converts top-
div, but with	most to whole
higher range	in case it
for decimnum	isn't already
for instead	a whole num

<h5699>

50	5
wk	ix
fnwarp	pffundgives
sx	decimalqty
	sh
	5
	ix
sh	pffundgives

<h5700>

s5	5
	ix
	pffundgives
	decimalqty
	s9
	5
	ix
	pffundgives

<h5701>

i9	rd
0	
i5	

	1
	ix
scaleint	pffundin

<h5702>

i9
decimqty
always on
top of
ministk
1
ix
pffundin.

<h5703>

basis

531
|Name same as basis
|in formula: &divw&
fneasyact
&divwact& thisfund
531 lk
fnactcherish togglefn

<h5704>

|Qty links:
1
47
adjustfund
&ministk&
fnam
50
adjustfund

<h5705>

sumcolumn= sorttwo
|in:qtydecim, s4
|x,y1,y2, s3
|ministk s2
| s9
|Subroutine
|of sumact 0
tx t1

<h5706>

11:2000000000 s5
|Desired:
i2 i9
i3 i5
pos4x135 scaleint
|Qtydecimals & j1
|value to stk: ad
tenandextra t1

<h5707>

h3 j1
i3 i9
i4 dance
le jx
pffundintwice
ex

d6 lo.

<h5708>

sumrow= sorttwo
|in:qtydecim, s4
|y,x1,x2, s3
|ministk s2

| s9
|Subroutine
|of sumact basis
tx t7

<h5709>

11:2000000000 s5
|Desired:
i3 i9
i2 i5
pos4x135 scaleint
|Qtydecimals & j7
|value to stk: ad
tenandextra t7

<h5710>

h3 j7
i3 i9
i4 dance
le jx
pffundintwice
ex

d6 lo.

<h5711>

sumact= |Note, either
|in:tr#,fnwarp |x1=x2 or
|With ministk |y1=y2; other
|as link#1; |in increasing
|At ministack: |sequence;
|fromfn, tofn; |2*2 extranums
tx
sh

<h5712>

11:4
5
ix
50 pffundgives
jx sh
wk |'buffer' for
fnwarp |xn:xn ranges
sx lo

<h5713>

|i9 is 5
|quantity of ix
|desired pffundgives
|decimals in s9
|the big rich
|sum :)

<h5714>
|i3 is fn# 5
|from, ix
|i4 is fn# pffundgives
|to, s4
|assuming 5
|equal column# ix
|or equal row# pffundgives
|in sum loop s3

<h5715>
i3 twobillion
i4 basis
eq |when no
n? |arguments
dance
ix
pffundintwice
d6 ex

<h5716>
i3
fund4x135
t2
t1
i4
fund4x135
t4
t3

<h5717>
|same xcoor? |qtydecimals
|{typically} i9
j1 j1
j3 j2
eq j4
n? ix
sumcolumn
d7 ex

<h5718>
|same row? |qtydecimals
i9
j2 j2
j4 j1
eq j3
n? ix
sumrow
d7 ex

<h5719>

|In case basis
|both row i9
|and column
|numbers
|differ,
|sumact 1
|just gives ix
|basis pffundintwice.

<h5720>

|parameters basis
|has parsing, 395
|but name as basis
|in formula: &sum&
fneasyact
&sumact& thisfund
395 lk
fnactcherish togglefn

<h5721>

|Qty links:
1
47
adjustfund
&ministk&
fnam
50
adjustfund

<h5722>

avecolum= sorttwo
|in:qtydecim, s4
|x,y1,y2, s3
|ministk s2
| s9
|Subroutine
|of aveact 0
tx t1

<h5723>

i4
i3
su
up

t9

<h5724>

11:2000000000 s5
|Desired:
i2 i9

i3 i5
pos4x135 scaleint
|Qtydecimals & j1
|value to stk: ad
tenandextra t1

<h5725>

h3 j9
i3 rd
i4 i9
le dance
jx
d8 pffundintwice
ex
j1 lo.

<h5726>

averow= sorttwo
|in:qtydecim, s4
|y,x1,x2, s3
|ministk s2
| s9
|Subroutine
|of aveact basis
tx t7

<h5727>

i4
i3
su
up

t9

<h5728>

11:2000000000 s5
|Desired:
i3 i9
i2 i5
pos4x135 scaleint
|Qtydecimals & j7
|value to stk: ad
tenandextra t7

<h5729>

h3 j9
i3 rd
i4 i9
le dance
jx
d8 pffundintwice

j7 ex
lo.

<h5730>

aveact=	Note, either
in:tr#,fnwarp	x1=x2 or
With minstk	y1=y2; other
as link#1;	in increasing
At minstack:	sequence;
fromfn, tofn;	2*2 extranums

tx
sh

<h5731>

	11:4
	5
	ix
50	pffundgives
jx	sh
wk	'buffer' for
fnwarp	xn:xn ranges
sx	lo

<h5732>

i9 is	5
quantity of	ix
desired	pffundgives
decimals	s9

<h5733>

i3 is fn#	5
from,	ix
i4 is fn#	pffundgives
to,	s4
assuming	5
equal column#	ix
or equal row#	pffundgives
in ave loop	s3

<h5734>

i3	twobillion
i4	basis
eq	when no
n?	arguments
	dance
	ix
	pffundintwice
d6	ex

<h5735>
i3
fund4x135
t2
t1
i4
fund4x135
t4
t3

<h5736>
|same xcoor? |qtydecimals
|{typically} i9
j1 j1
j3 j2
eq j4
n? ix
avecolumn
d7 ex

<h5737>
|same row? |qtydecimals
i9
j2 j2
j4 j1
eq j3
n? ix
averow
d7 ex

<h5738>
|In case basis
|both row i9
|and column
|numbers
|differ,
|aveact 1
|just gives ix
|basis pffundintwice.

<h5739>
|parameters basis
|has parsing, 400
|but name as basis
|in formula: &ave&
fneasyact
&aveact& thisfund
400 lk
fnactcherish togglefn

<h5740>
|Qty links:
1

47
adjustfund
&ministk&
fnam
50
adjustfund

<h5741>
remact= |That is,
|in:tr#,fnwarp |plain mo is
|With ministk |used; this
|as link#1, |converts top-
|remainder, ie |most to whole
|mo, by |in case it
|analogy with |isn't already
|divw |a whole num

<h5742>
50 5
wk ix
fnwarp pffundgives
sx |decimalqty
s9
5
ix
sh pffundgives

<h5743>
s5 5
i9 ix
0 pffundgives
i5 |decimalqty
scaleint sh
5
ix
s5 pffundgives

<h5744>
s3 0
i9 i9
0 i6
i3 scaleint
scaleint
i5 1
mo ix
s6 pffundin

<h5745>
i9
|decimqty
|always on
|top of
|ministk

1
ix
pffundin.

<h5746>

basis
431
|Name same as basis
|in formula: &rem&
fneasyact
&remact& thisfund
431 lk
fnactcherish togglefn

<h5747>

|Qty links:
1
47
adjustfund
&ministk&
fnam
50
adjustfund

<h5748>

permilleact=
|in:tr#,fnwarp
|With ministk
|as link#1,
|permille
|operator
|in the
|spreadsheet

<h5749>

50 5
wk ix
fnwarp pffundgives
sx |decimalqty
sh
5
ix
sh pffundgives

<h5750>

5
ix
pffundgives
|decimalqty
s9
5
ix
pffundgives

<h5751>

i9 decimalmm
1000
rd

1
ix
tento pffundin

<h5752>

i9
|decimqty
|always on
|top of
|ministk
1
ix
pffundin.

<h5753>

basis
458
|Name same as basis
|in formula: &permille&
fneasyact
&permilleact& thisfund
458 lk
fnactcherish togglefn

<h5754>

|Qty links:
1
47
adjustfund
&ministk&
fnam
50
adjustfund

<h5755>

ndivact= |Qty decimals
|in:tr#,fnwarp |same, in this
|With ministk |approach,
|as link#1, |when such
|integerdivide |functions are
|2nd on topmst |called via
|&puts result |such as
|back |'performfn'

<h5756>

50 5

wk ix
fnwarp pffundgives
sx |decimalqty
sh
5
ix
sh pffundgives

<h5757>
5
ix
pffundgives
|decimalqty
s9
5
ix
pffundgives

<h5758>
w decimaldi

i9 1
tento ix
pffundin

<h5759>
i9
|decimqty
|always on
|top of
|ministk
1
ix
pffundin.

<h5760>
basis
422
|Name same as basis
|in formula: &ndiv&
&ndivact& fneasyact
422 thisfund
fnactcherish lk
togglefn

<h5761>
|Qty links:
1
47
adjustfund

&ministk&
fnam
50
adjustfund

<h5762>

ndivwact=	of decimalrd,
in:tr#,fnwarp	plain di is
With ministk	used; this
as link#1, as	converts top-
div, but with	most to whole
higher range	in case it
for decimnum	isn't already
for instead	a whole num

<h5763>

50	5
wk	ix
fnwarp	pffundgives
sx	decimalqty
	sh
	5
	ix
sh	pffundgives

<h5764>

s5	5
	ix
	pffundgives
	decimalqty
	s9
	5
	ix
	pffundgives

<h5765>

i9	di
0	
i5	

	1
	ix
scaleint	pffundin

<h5766>

	i9
	decimqty
	always on
	top of
	ministk
	1
	ix

pffundin.

<h5767>

	basis
	532
Name same as	basis
in formula:	&ndivw&
	fneasyact
&ndivwact&	thisfund
532	lk
fnactcherish	togglefn

<h5768>

Qty links:
1
47
adjustfund
&ministk&
fnam
50
adjustfund

<h5769>

rffgact=	from one to
in:tr#,fnwarp	the number on
With ministk	ministk; this
as link#1,	converts top-
makes a new	most to whole
relatively	in case it
free fluct	isn't already
number range	a whole num

<h5770>

50	5
wk	ix
fnwarp	pffundgives
sx	decimalqty
	t3
	5
	ix
sh	pffundgives

<h5771>

s5	rffg
j3	a relatively
0	Free
i5	fluctuation
	number
	s9
	0
scaleint	j3

<h5772>

i9 j3
scaleint |decimqty
|always on
|top of
|ministk
1 1
ix ix
pffundin pffundin.

<h5773>

basis
533
|Name same as basis
|in formula: &rffg&
fneasyact
&rffgact& thisfund
533 lk
fnactcherish togglefn

<h5774>

|Qty links:
1
47
adjustfund
&ministk&
fnam
50
adjustfund

<h5775>

procact=
|in:tr#,fnwarp
|With ministk
|as link#1,
|procent

<h5776>

50 5
wk ix
fnwarp pffundgives
sx |decimalqty
sh
5
ix
sh pffundgives

<h5777>

5
ix
pffundgives

|decimalqty
s9
5
ix
pffundgives

<h5778>

i9 decimalmm
 100
 rd

 1
 ix
tento pffundin

<h5779>

i9
|decimqty
|always on
|top of
|ministk
1
ix
pffundin.

<h5780>

 basis
 438
|Name same as basis
|in formula: &proc&
 fneasyact
&procact& thisfund
438 lk
fnactcherish togglefn

<h5781>

|Qty links:
1
47
adjustfund
&ministk&
fnam
50
adjustfund

<h5782>

roundact=
|in:tr#,fnwarp
|With ministk
|as link#1,
|rounds n1 by
|n2 digits as

|spreadsheet
|function

<h5783>

50	5
wk	ix
fnwarp	pffundgives
sx	decimalqty
	t3
	5
	ix
sh	pffundgives

<h5784>

s5
j3
0
i5

scaleint
s8

<h5785>

5	s6
ix	j3
pffundgives	0
decimalqty	i6
sh	
5	scaleint
ix	
pffundgives	s6

<h5786>

i8	i6
0	
9	i9
makefit	rd
tento	

	i9
s9	mm

<h5787>

s5	j3
0	decimqty
j3	always on
i5	top of
scaleint	ministk
1	1
ix	ix
pffundin	pffundin.

<h5788>

	basis
	550
Name same as	basis
in formula:	&round&
	fneasyact
&roundact&	thisfund
550	lk
fnactcherish	togglefn

<h5789>

Qty links:
1
47
adjustfund
&ministk&
fnam
50
adjustfund

<h5790>

cleansetopbox=	3
Action:	3
clears the	1021
top box of	49
the screen,	
called eg	
after	0
input	rt.

<h5791>

eleganttxt01=	cliptrail
^.	

longtxt*

***** Complete	
d spreadsheet	
run *****	eleganttxt01
*txtcomplete	kl

<h5792>

elegantleave=	fnloopcont
Called by	
spreadsheet	
when <esc>	
is clicked	

cleansetopbox	basisthis
---------------	-----------

<h5793>

eleganttxt01	400
lk	330

af
ad

120

25

bx activepause.

<h5794>

posclswhite=	in: x, y
Action:	{range: x is
normalises	1 to 4, y is
position in	1 to 21, ie,
spreadsheet	visible part
after marker	of spread}
or to update	s4
value	s3

<h5795>

m3	mm
columnspace	76
mm	
33	
ad	

m4

33	ad
----	----

<h5796>

d	255
columnspace	
ad	
up	

d

30	
ad	rt.

<h5797>

posclsblack=	in: x, y
Action: shows	{range: x is
marker of	1 to 4, y is
position in	1 to 21, ie,
spreadsheet	visible part
by inverted	of spread}
tones in the	s4
position	s3

<h5798>

m3	mm
columnspace	76
mm	
33	
ad	

```

m4
33          ad

<h5799>
d          0
columnspace
ad
up

d
30
ad          rt.

<h5800>
poswhitetxt= tx
|In:txt,x,y  jx
|Action:shows lk
|quote in    n?
|area after eg
|posclsblack se
s4
s3          ex

<h5801>
jx          m4
           33
           mm
m3          86
columnspace
mm          ad
31
ad          bx.

<h5802>
posblacktxt= tx
|In:txt,x,y  jx
|Action:shows lk
|quote in    n?
|area after eg
|posclswhite se
s4
s3          ex

<h5803>
0          m4
bt         33
jx         mm
m3         86
columnspace ad
mm         boldbx
31         255
ad         bt.

```

<h5804>

stdquote	=	Standard in
in: fnx, fny,		the sense,
fnwarp to		natural form
fcminterface		eg formatnum
gives: quote		
Appropriate	sx	
for view in		Note 4x135:
spreadsheet		warp4x135

<h5805>

tx	&&
	i5
10	n?
jx	
wk	se

Type:	ex
s5	sh

<h5806>

i5	jx
2	link2trlwarp
eq	ex
n?	
texts are	Then type is
quotes within	number or
single fn	formula; gives
d3	result next:

<h5807>

#9 ", " flag:	12
16	jx
ix	wk
wk	
#10 qtydecim:	numgroupflag
37	qtydecimals
jx	the number
wk	formatnum.

<h5808>

xyto4x135=	The x and y
in: screenx,	refers to
screeny, fnwrp	screen only;
Gives: fnx, fny	from 1,1 to
spreadsheet's	4, 21
fnwarp helps,	tx
convert x,y	s4
to pos4x135	x on stack

<h5809>

37

jx

wk

m4

ad.

<h5810>

maybeshowform= xyto4x135

|in:scrx,scry,

|fnwarp to

|interface

|When node is

|formula, show

|inside topbox warp4x135

|in text form tx

<h5811>

10

jx

wk

|is it formula

3

eq

<h5812>

n? &===&

se

ex

20

|It's a 23

|formula: bx

<h5813>

51

jx

wk

quotefnaya

55

23

bx.

<h5814>

maybeclsbox= xyto4x135

|in:scrx,scry, warp4x135

|fnwarp to 10

|interface wk

|When node is
|formula, show
|inside topbox |Formula-type:
|in text form 3

<h5815>

eq

se

cleansetopbox.

<h5816>

refreshxywhi= |screenfield
|in:screenx, |as given,
|screeny, |x and y up to
|fnwarp to |4x21;
|interface |white
|Action:shows tx
|spreadsheet s5
|content at s3

<h5817>

i3 |stdquotepos
i5
jx

xyto4x135 |i3
|i5
jx |poswhitetxt.

<h5818>

whiterefresh3= |but only
|in:screenx, |does it when
|screeny, |formula field
|fnwarp to |ie type 3
|interface
|Action: both tx
|posclswhite & s5
|refreshxybla s3

<h5819>

i3 |ix
i5 |i9
jx |mainget4x135

xyto4x135
s9

sx |Type at stk

<h5820>

3 i3
eq i5
n?

se

ex posclswhite

<h5821>

ix
i9
jx
stdquotepos

i3
i5
posblacktxt.

<h5822>

whiterewrite= |for all
|in:screenx, |positions
|screeny,
|fnwarp to
|interface
|Action: both tx
|posclswhite & s5
|refreshxybla s3

<h5823>

i3
i5
jx

xyto4x135

s9
sx

<h5824>

i3
i5

posclswhite

<h5825>

ix
i9
jx
stdquotepos

i3
i5
posblacktxt.

<h5826>

refreshxybla= |screenfield
|in:screenx, |as given,
|screeny, |x and y up to
|fnwarp to |4x21;
|interface |black
|Action:shows tx
|spreadsheet s5
|content at s3

<h5827>

i3 stdquotepos
i5
jx

xyto4x135 i3
jx i5
posblacktxt.

<h5828>

rewriteallpos= tx
|in:fnwarp to
|interface
|Action: this
|refreshes
|even text &
|value fields
|at screen

<h5829>

|This concerns 10
|all fields jx
|other than wk
|present pos, sx
|which should 12
|be handled jx
|via the wk
|marking s9

<h5830>

11:21 i2
ix
eq

11:4 i1
i9
eq

<h5831>

an i2
i1
jx
whiterewrite

d4 lo
lo.

<h5832>

scrollbyarrow= 1
|in:fnwarp eq
|to interface
tx se
dance
12 |Find
jx |direction:
wk ts

<h5833>

sx |Arrowscroll
|can often
1 |lead to
115 |overrepeat,
ix |so attend to
37 |keyboard-
jx |buffer:
pn kb

<h5834>

37 cleansetopbox
jx
wk

allrownums jx
rewriteallpos.

<h5835>

markerupdate= |The x and y
|in:newx, |refers to
|newy,fnwarp |screen only;
|to interface |from 1,1 to
|Subroutine of |4, 21
|fcminterface, tx

|updates pos s4
|w/rangefix s3

<h5836>

10 i5
jx i6
wk jx
s5 extratriplet
12
jx
wk
s6 maybeclsbox

<h5837>

i5
i6
posclswhite

|Extra triplet
refreshxybla

<h5838>

i3 s2
1 s1
4
makefit
i4
1 i2
21 i4
makefit eq

<h5839>

d2 i1

10
jx jx
scrollbyarrow kw

<h5840>

i2 i1
12 i2
jx jx
kw extratriplet
refreshxywhi
i1
i2
posclsblack maybeshowform.

<h5841>
refreshallpos= tx
|in:fnwarp to
|interface
|Action: this
|updates the
|screeninfo as
|to most
|recent values

<h5842>
|This concerns 10
|the numbers jx
|of type 3 & wk
|other than sx
|present pos, 12
|which is jx
|always wk
|updated s9

<h5843>
11:21 i2
ix
eq

i1
i9
11:4 eq

<h5844>
an i2
i1
jx
whitererefresh3

lo
d4 lo.

<h5845>
typedinput= typedinput
^.

200
sz
&& kl

<h5846>
storetypednum= t5
|in:txt,fnw1, tx

|fnw2 |j5, the field
|Txt has num; |Will call
|fnwarp1 to |fetchnum from
|fcminterface; |quoted num
|fnwarp2 to fn |in ix
|in pos4x135 sx

<h5847>

|GroupsignTr#3 ix
16 |Groupsigns
jx |are a global
wk |setting
|QtydecimTr#10 fetchnum
37 12
j5 j5
wk kw.

<h5848>

keyenter= |The x and y
|in:x,y,fnwarp |refers to
|to interface; |screen only
|Subroutine of cleansetopbox
|fcminterface,
|processes tx
|press of s4
|<enter> key s3

<h5849>

|New datafield wk
|means, when n?
|ctr-t is at
|active, calc d2
|new formula
|results
31 jx
jx llmaintodance

<h5850>

^TYPE CONTENT: 37
20 jx
23 wk
bx m4
ad

typedinput

lk |pos4x135 y:
sx s5

<h5851>

i3 200
i5 23
warp4x135 14
t7 ix

i3	
i4	
posclsblack	19
<h5852>	
basis	cleansetopbox
10	
j7	
kw	
basis	
12	i3
j7	i5
kw	databas4x135
<h5853>	
	ix
	lk
	n?
	se
	ex
<h5854>	
ix	f1
leisurenum	
	10
n?	j7
s1	kw
<h5855>	
i1	ix
	jx
	j7
d4	storetypednum
<h5856>	
51	ix
j7	lk
wk	
	u2
	One extra for
	len; and one
Data array	extra for nil
s9	t1

<h5857>

11:2000000000 i1
|When two fns
|are used as
|fnyay array,
|74 positions
m1 |are available
ix i9
ay fnyay

<h5858>

i1 lo
j1
lt

d2

twobillion
s1

<h5859>

i3
i5
jx
stdquotepos
i3
|After i4
|important poswhitetxt
|entry,good to kb.

<h5860>

compthistx1= &&
^.
|The formulas |Each part of
|always within |the formula
|80 chars, so |gets copied
|ample room: |over here
250 compthistx1
sz kl

<h5861>

comppartnum= tx
|in:num,fn#aya sx
|fnwrp s5
|action:this
|subroutine of 34
|compthispart jx
|compiles in a wk
|number s3

<h5862>

|Compile in |Compile in

|type: |the value:
1 i5
f3

i3
ix ix
fnyay fnyay

<h5863>
|The compile 2
|next
|position in
|triplet#9
|of the 34
|fcminterface jx
|foundry is ad
|updated: ku.

<h5864>
comppartrange= tx
|in:a,b,fn#aya sx
|fnwrp s2
|action:this s1
|subroutine of |as numbers:
|compthispart |qtydecim,fn#1
|compiles in a |fn#2, then
|range |2*2 nils

<h5865>
|The idea of i1
|'buffer': ix
|A func like jx
|"add" would comppartnum
|yield basis i2
|when given a ix
|range "sum" jx
|should have comppartnum

<h5866>
|Fetch qty ix
|decimals
36
jx
wk
|is in fnwarp
|fcminterface jx
|as tr#9 vars comppartnum

<h5867>
|The addition 11:4
|of two pair 0
|basis'es ix
|after a range jx

|is expected comppartnum
|by eg "ave"
|as a sort of
|'buffer' lo.

<h5868>

comppartpos= tx
|in:pos,fn#aya sx
|fnwrp s5
|action:this
|subroutine of 34
|compthispart jx
|compiles in a wk
|position s3

<h5869>

|Compile in |Compile in
|type: |the position:
2 i5
 f3

i3
ix ix
fnyay fnyay

<h5870>

|The compile 2
|next
|position in
|triplet#9
|of the 34
|fcminterface jx
|foundry is ad
|updated: ku.

<h5871>

comppartfunc= tx
|in:num,fn#aya sx
|fnwrp s5
|action:this
|subroutine of 34
|compthispart jx
|compiles in a wk
|function s3

<h5872>

|Compile in |Compile in
|type: |the function:
3 i5
 f3

i3
ix ix

fnyay fnyay

<h5873>

```
|The compile 2
|next
|position in
|triplet#9
|of the 34
|fcminterface jx
|foundry is ad
|updated: ku.
```

<h5874>

```
compthispart= |len is the
|in:start,len, |length of
|fn#,fnwrp |this nonspace
|gives: done?, |unit {fnwrp:
|ok? {on top} |fcminterface:
|Action:start |tr#9 has info
|is WARP into |} fn#:fnaya
|formulaquote, |to store >>
```

<h5875>

```
|okflag is 1, tx
|otherwise sx
|it is a |fnwrp's tr#9:
|syntax issue; |Main:next pos
|doneflag is |to compile to
|1 when basis |Xtra:qtydecim
|start {from s2
|wordcountx} s1
```

<h5876>

```
36 dance
jx dance
wk ex
t3
i1 16
ye jx
wk
d3 t5
```

<h5877>

```
compthistx1 |From,to,qty:
lk i1
t1
j1
up
i2
j1 i2
setlenandnil fw
```

<h5878>

basis
|stk:doneflag
j1
leisurenum

n?

dh

<h5879>

j5	ix
j3	jx
j1	comppartnum
fetchnum	tn
ix	dance
jx	tn
comppartnum	tn
j3	ex

<h5880>

j1	i5
parseposname	n?
s6	

i6
n?

s5	or
----	----

<h5881>

	i5
	i6
	pos4x135
	ix
	jx
	compartpos
	dance
d8	ex

<h5882>

j1	i6
fnam	ix
s6	jx
i6	compartfunc
!1	tn
eq	dance
	tn
d8	ex

<h5883>

j1	i5
colonrange	!1
s6	eq

i6
!1
eq

s5 or

<h5884>

i5
i6
ix
jx
comppartrange
dance
tn

d8 ex

<h5885>

textpart	Doneflag is
was checked,	on stk;
1] is numlike	Stricter chk
{also range};	of syntax to
2] is it	prefix eg add
positionlike;	to 'funcadd',
3] is it	internal fnam
operatorname	basis.

<h5886>

tellsyntax=	tx
in:warppos,tx	s5
action: msg	
when formula	{quote will
has just been	be changed
typed in w/?	during
at position	message}
warped to	cleansetopbox

<h5887>

&please&	&retry:-)&
Rule of thumb	pc must show
as for mind-	humility,esp
respecting	as for making
programs:	a request!
4	12
8	29
rp	bx

<h5888>

jx	jx
	lk
	jx
	ns
	Ascii: '?'
115	63

29 i5
bx kl

<h5889>

jx 1200
115 activepause
11 |nuke rolling
bx |keys away:
kb
0 ki
jx sh
setlenandnil cleansetopbox.

<h5890>

compileform= |triplet#1main
|in:txt,x,y |gets 3 at ok
|interfacewrp; |parse {other-
|Compiles txt |wise 0}:type
|to fnaya in tx
|l#3; msg at warp4x135
|issue, then t1
|txt erased sx

<h5891>

52 |where type
j1 |1 is number
wk |2 is fn# pos
|j3 has |3 is fn# func
|array: |and formula
|type,value, |is complete
|type,value,, |when type is
t3 |basis

<h5892>

basis basis
10 1
j1 j3
kw fnyay
basis basis
12 2
j1 j3
kw fnyay

<h5893>

1 i4
34 n?
jx
kw se
|tr#9:compvars
ix ex
wordcount |tr#9main:pos#
s4 |in comparray

<h5894>

So it has	basis
content; the	basis
wordcountx	
may have data	i4
from earlier	up
in session &	wordcountx
basis is sign	lk
used next	storepair

<h5895>

11:2000000000	Note that
i1	'wordcount'
wordcountx	produces
lk	position as
getpair	warps into
	the text
t9	as a direct
t8	address

<h5896>

Input next:	the
textposwarp,	compthispart
length,	updates tr#9
fn# to array,	main value in
formulatext	fcminterface
	j3
j8	jx
j9	compthispart

<h5897>

Okflag	sh
ye	j8
when ok,	ix
already	tellsyntax
compiled in,	proper msg,
then skip	ready to
next column:	exit formula
d5	ex

<h5898>

Doneflag	twobillion
n?	s1
Anything	Using2billion
more in the	in loop is
formula?	in 1sthand
if so, skip	knowing of
next two	upper limits
d2	lo

<h5899>

Completion	This basis
signal:	in the

basis	compiled
34	array is
jx	inserted at
wk	what tr#9 say
j3	is 'next
fnyay	comp pos'

<h5900>

All right!
Syntax ok as
far as it
goes:
3
10
j1
kw.

<h5901>

keyhome=	are:1=number;
in:x,y,fnwarp	2=fundnum to
to interface	anyone 4x135;
Subroutine of	3=func eg add
fcminterface, cleansetopbox	
does <home>;	tx
Compiled	s4
formula codes	s3

<h5902>

^FORMULA:	37
20	jx
23	wk
cleansetopbox	m4
bx	ad
typedinput	
lk	pos4x135 y:
sx	s5

<h5903>

i3	23
i5	62
warp4x135	ix
t7	19
i3	ix
i4	cliptrail
posclsblack	lowercase
129	sh

<h5904>

basis	cleansetopbox
10	After loop,
j7	set xtraval
kw	tr#9 in jx to
basis	qty decimals

12 i3
j7 i5
kw databas4x135

<h5905>

ix basis
lk |Initial value
|before
n? |formula
|performed
se 12
j7
ex kw

<h5906>

51 ix
j7 lk
wk
|Data array u2
s9 |One extra for
ix |len; and one
clipleading |extra for nil
sx t1

<h5907>

11:2000000000 i1
|When two fns
|are used as
|fnyay array,
|74 positions
m1 |are available
ix i9
ay fnyay

<h5908>

i1 lo
j1 |qtydecim>tr#9
lt 37
j7
d2 wk
36
twobillion jx
s1 kw

<h5909>

ix |The
|jx tr#9, both |indication
|values,in use |that the
|in compform |parsing of
i3 |formula
i5 |showed good
jx |syntax is
compileform |that type=3:

<h5910>

10 i3
j7 i5
wk |Keep dataarea
|clean; makes
3 |easier save
eq |routines

d3 databas4x135

<h5911>

31
jx
wk
n?
d2

jx
llmaintodance

<h5912>

i3 jx
i4 llmaintodance
jx |This works
|no matter
|parse:
1
j7
maybeshowform performfn

<h5913>

31
jx
wk

d2

jx
llmaintobasis

<h5914>

i3
i5
jx
stdquotepos
i3
|After i4
|important poswhitetxt
|entry,good to kb.

<h5915>

keypgup= tx

```
|in:fnwarp      cleansetopbox
|to interface  1
|Subroutine of 115
|fcminterface, !21
|processes     37
|press of      jx
|pgup          pn
```

<h5916>

37
jx
wk

allrownums

<h5917>

10 jx
jx
wk
12
jx
wk
jx
markerupdate rewriteallpos.

<h5918>

```
keypgdn=      tx
|in:fnwarp      cleansetopbox
|to interface  1
|Subroutine of 115
|fcminterface, 21
|processes     37
|press of      jx
|pgdn          pn
```

<h5919>

37
jx
wk

allrownums

<h5920>

10 jx
jx
wk
12

jx
wk
jx
markerupdate rewriteallpos.

<h5921>
putcharhere= tx
|In:char,x,y,
|fnwarp to jx
|fcminterface xyto4x135
|Action: puts s4
|14 chars to s3
|this field,
|and type=text s7

<h5922>
i3 i7
i4 32
 eq
|Blanks are
|treated as se
|'erase'

databas4x135 ex

<h5923>

 i3
 i4
 warp4x135

tx

<h5924>
|Type=text: |Link#2=data
2 51
10 jx
jx wk

kw s5

<h5925>
11:14 basis
i7 16
|First is p#2 i5
f1 fnyay
i5 14
fnyay 1
 i5

lo fnyay.

<h5926>

charrighttx= nd <ENTER>}===

^. ==>

*txtcomplete

longtxt* cliptrail

Pls type chara

cter to repeat

from here & t charrighttx

o the right {a kl

<h5927>

charright= tx

|In:x,y,fnwarp s4

|fcminterface s3

|Repeats char

|in this

|field, and to typedinput

|any fields to lk

|the right sx

<h5928>

charrighttx

lk

10

24

bx

<h5929>

955 sx

23

1

ix

19

ix

|Accept space,

|too! cleansetopbox

<h5930>

ix ix

lk up

n? lk

se

ex s9

<h5931>

i9
m1

i3
ad
i4
jx

ll:4 putcharshere

<h5932>

i1 ex
i3
ad
4
gt

se lo.

<h5933>

blankrowhere= s5
|in: row#
|action:erases
|column 1->4
|in the 1->135
|rownum; do be
|sure input is
|fully right

<h5934>

ll:4 0
i1 10
i5 jx
databas4x135 kw
i1 0
i5 12
warp4x135 jx
tx kw

<h5935>

0
37
jx
kw

lo.

<h5936>

copyfieldar1= tx
|in:fwpl, fwp2 sx
|Ie,fnwarps |Note that

```
|4x135; copies |link#2 fnaya
|f1->f2 text   |has textlen
|array,ie,l#2; |in pos#1,here
|Be sure input |used,and it's
|&arrays right|nilcomplete
```

<h5937>

```
51          1
ix          i5
wk          fnaya
s5          s4
51          i4
jx          1
wk          i6
s6          fnyay
```

<h5938>

```
11:2000000000 f1
|Length up up: f4
f1            gt
i5
fnaya        se
f1
i6            ex
fnyay        lo.
```

<h5939>

```
copyfieldar2= tx
|in:fwpl,fwp2  sx
|Ie,fnwarps    |l#3 is fnaya
|4x135; copies |comp formula
|f1->f2 comp   |with type,val
|array,ie,l#3; |type,val,etc,
|Be sure input |from pos#1,to
|&arrays right|type nil
```

<h5940>

```
52
ix
wk
s5
52
jx
wk
s6
```

<h5941>

```
11:2000000000 n?
i1
i5            se
fnaya
f             ex
i1
```

i6
fnyay h1

<h5942>

|Pairwise |The value
i1 |is after
i5 |the type
fnaya |and can
|be anything

i1
i6
fnyay lo.

<h5943>

copyfieldatob= t4
|in: x1, y1,
|x2, y2 t3
|Copies all of |These are
|field xly1 to |1,1 to 4,135
|x2y2; do be t2
|sure input is
|fully right t1

<h5944>

j1 |Data in use
j2 |is copied
warp4x135 |over;
sx |the
j3 |databas4x135
j4 |is first done
warp4x135 |for
tx |destination

<h5945>

j3 37
j4 ix
wk

37
jx
databas4x135 kw

<h5946>

10 12
ix ix
wk wk
f |i8=type lnum
s8 |2txt 3formula
10 12
jx jx
kw kw

<h5947>

i8 ix
1 jx
eq

se

ex copyfieldar1

<h5948>

i8 ix
2 jx
eq

se

ex copyfieldar2.

<h5949>

copyrowatob= s8
|in: n1, n2
|action:copies
|row# n1 to s6
|row# n2, all
|data; do be
|sure input is
|fully right

<h5950>

l1:4
i1
i6
i1
i8
copyfieldatob

lo.

<h5951>

rmrowheretx= e? Y/N <ENTER>
^ . =Y
*txtcomplete
longtxt* cliptrail
Removing a row
may require f
ormula retype. rmrowheretx
Sure to remov kl

<h5952>

rmrowhere= xyto4x135
|In:x,y,fnwarp s4

```
|fcminterface sh
|Removes this
|row, after
|asking typedinput
|for y/n lk
|confirm sx
```

<h5953>

```
rmrowheretx
```

```
lk
10
24
bx
```

<h5954>

```
955 parseyenter
23 n?
3
ix se
kb
19 ex
cleansetopbox 135
ix t7
```

<h5955>

```
11:2000000000 d3
m1
i4 j7
ad blankrowhere
s3
f3
j7
le ex
```

<h5956>

```
f3
i3
copyrowatob
```

lo.

<h5957>

```
insertrowtx= e now? Y/N <EN
^. TER>=Y
*txtcomplete
longtxt* cliptrail
Creating a bla
```

nk row {may re
quire formula insertrowtx
retype}. Creat kl

<h5958>

insertrow= xyto4x135
|In:x,y,fnwarp s4
|fcminterface sh
|Inserts new
|row, after
|asking typedinput
|for y/n lk
|confirm sx

<h5959>

insertrowtx

lk
10
24
bx

<h5960>

955 parseyenter
23 n?
3
ix se
kb
19 ex
cleansetopbox 135
ix s3

<h5961>

11:2000000000 d3

i3 i4
i4 blankrowhere
eq

n? ex

<h5962>

m3
i3
copyrowatob

q3
lo.

<h5963>
insertmenutx1= row <3>INSERT
^.
new row here
*txtcomplete
longtxt* cliptrail
MENU:<1>REPEAT
one character
to the right insertmenutx1
<2>REMOVE this kl

<h5964>
keyinsert= tx
|in:x,y,fnwarp
|to interface
|Subroutine of s8
|fcminterface,
|processes
|press of
|<insert> key s9

<h5965>
cleansetopbox insertmenutx1
lk

10
24
bx

<h5966>
ki
48
su
sx

cleansetopbox

<h5967>
ix i9
l i8
eq jx
n? charright

d6 jx
rewriteallpos

<h5968>
ix i9

2 i8
eq jx
n? rmrowhere

jx
d6 rewriteallpos

<h5969>

ix i9
3 i8
eq jx
n? insertrow

jx
d6 rewriteallpos

<h5970>

i9
i8

jx
markerupdate.

<h5971>

f3successtx= {
^ . press SPACE}
*txtcomplete
longtxt* cliptrail
The <F3> actio
n completed, i
nvolving this f3successtx
qty of cards: kl

<h5972>

f3quotel= &&
^ .
|Can be used
|during
|f3 storage

100 f3quotel
sz kl

<h5973>

f3cardidisstx= s typed right
^ . PRESS SPACE
*txtcomplete
longtxt* cliptrail

????! Do pls d
o it anew but
this time be s f3cardidisstx
ure location i kl

<h5974>

tellf3success= s5
|In:qty
|Action:tells f3successtx
|that f3 did lk
|it good with
|qty cards 10
|involved, & 24
|receives key bx

<h5975>

i5 kb
makenumber

ki
sh

680

24

bx cleansetopbox.

<h5976>

tellf3cidiss=
|Action: tell
|that there
|was an issue
|with location,
|and suggests
|redoing the
|f3 action

<h5977>

f3cardidisstx 1200
activepause
kb

lk ki

10 sh

24

bx cleansetopbox.

<h5978>

spaceaddtexts= |at pos, txt2
|In:pos,txt1, |is added
|txt2 |{can be &&}
|Txt1 receives |after spaces
|& MUST be
|roomy, it's sx
|extended w/ tx

|spaces then, s3

<h5979>

jx ex
lk
s4 ix
lk
i3 m3
n? ad
jx
se setlenandnil

<h5980>

|From: |Qty:
ix ix
up lk
|Handles also
|To: |pos < len
jx |of txt1
i3
ad fw

<h5981>

i4 i3
i3 f4
ge su

jx
se i4
ad
ex ns.

<h5982>

isfieldfresh= warp4x135
|In: x, y 10
|Gives: flag wk
|Action: Finds |typenum is
|out whether |conclusive
|the 4x135 |enough
|field's fresh
|{ie, empty} n?.

<h5983>

finddoclen= 135
|Gives: num
|Action: finds |Note, an as
|the highest |yet unfilled
|numbered row |spreadsheet
|{max 135} |gives basis
|with content
|in it s4

<h5984>

11:2000000000 i4
11:4 ex

i2
i4
isfieldfresh

d2 lo

<h5985>
q4 twobillion
s1

i4 lo
ye

d2 i4.

<h5986>
buildrowstr= t5
|In:txt,pos,
|x,y,fnwarp to t4
|fcminterface |txt must have
|Builds txt w/ |room
|this 4x135 t3
|field tabulat t2
|to given pos t1

<h5987>
j2 j3
j4
j5
stdquotepos

j1 spaceaddtexts.

<h5988>
putlnnum= makenumber
|In:number
|Action: via
|putlntxt
|stores the
|number on a
|line;assumes
|initialized putlntxt.

<h5989>
getlinenum= getlinetext
|Gives:num, sx
|flag

```
|Action:          intonum
|Exactly as      |Assumes initd
|getline text   |getline text
|but converts
|quote=>num     ix.
```

<h5990>

```
maxlen=          f
|In:txt,maxlen  lk
|Gives:txt      ix
|Crops when     le
|txtlen>maxlen
sx               se
tx
jx              ex
```

<h5991>

ix

jx

setlenandnil.

<h5992>

```
putpairaya=     |inclusive,1st
|In: fn#        |of the pair,
|Action: uses   |ie, num1,
|putlnnum to    |is nil {eg,
|put num1<cr>   |like "type"}
|num2<cr>       |Assumes initd
|from fnaya     |putln txt
|array up to,&  sx
```

<h5993>

```
l1:2000000000  i5
|<cr>, ie,     putlnnum
|lineshift,    |include also
|after each    |completenil
i1             f1
ix            ix
fnaya         fnaya
s5            putlnnum
```

<h5994>

```
i5            h1
n?
```

se

ex lo.

<h5995>

```
getpairaya= |inclusive,1st
|In: max,fn# |of the pair,
|Action: uses |ie, n1,is nil
|getlinetext |--or until
|to get n1<cr> |arraylen=max
|n2<cr> pairs |is reached
|into fnaya sx
|array up to,& s9
```

<h5996>

```
11:2000000000 |include nil
getlinenum h1
sh getlinenum
s5 |ok here
i5 sh
i1 i1
ix ix
fnyay fnyay
```

<h5997>

```
f1 se
i9
ge ex
```

i5
n?

or lo.

<h5998>

```
texttoyay= sx
|In: text,fn# s9
|Action: uses i9
|fnyay to put lk
|text incl s5
|initial len &
|nilchar into
|fnaya array
```

<h5999>

```
11:2000000000 m1
i5
m1 gt
i9
ay se
i1
ix ex
fnyay lo.
```

<h6000>

putfielddata= s8
|In:x y s9
|Action: uses
|putln txt,
|assumed to be i9
|initiated, to i8
|store all of warp4x135
|a ss field tx

<h6001>

& & i8
s3 makenumber
i9 s3
96 i3
ad 1
f3 insertachar
kl i3
i3 putln txt

<h6002>

|Type# 10
|1=num jx
|2=text wk
|3=formula f
|decisive s5
|for storage
|{only 3 has
|formulacomp} putlnnum

<h6003>

|Recent value, 12
|relevant for jx
|two of the wk
|types but
|easy to
|include
|anyhow
|yes putlnnum

<h6004>

37 i5
jx 1
wk eq

|Qty se
|decimals

putlnnum ex

<h6005>

i5 jx
2 link2trlwarp


```
eq          putlntxt
n?          |Within a fn:
            |Fieldtexts
            |type2 maxlen
            |14
d4          ex
```

```
<h6006>
|Type 3      sx
|formula,    ix
|first text  quotefnaya
|form from   |maxlen ca 70
|array l#2:  |so one quote
51          |easily holds
jx          |it
wk          putlntxt
```

```
<h6007>
|Then the    sx
|pairs of    ix
|{type,val}
|until the
|nilcomplete
52
jx
wk          putpairaya.
```

```
<h6008>
savethismany= t5
|In:qtyrows, s9
|disk#,card#, s8
|fnwrpinterfac sx
|Gives:qtycard |Will also
|Saves row#1   |accept save
|to qtyrows in |of fresh
|qtycards      |spreadsheet
```

```
<h6009>
i8          |groupsignuse?
i9          16
initputlntxt j5
|The 'code-   wk
|word':
^SpreadSheet
```

```
putlntxt    putlnnum
```

```
<h6010>
            |groupsign is
            |comma?
            numgroupsign
            44
            eq
```

putlnnum

<h6011>

11:2000000000 okputlntxt
ix theputlncrd
lk
i1 i9
su
ge
d6 ex

<h6012>

11:4 i2
i1
putfielddata
i2
i1
isfieldfresh
lo
d3 lo.

<h6013>

cleansedoc= 11:135
|In:fnwarp to 11:4
|fcminterface |resets <f8>;
|Spreadsheet |but marker xy
|RESET FOR ALL |left intact
|FIELDS, for i2
|ctrtrt&refresh i1
tx databas4x135

<h6014>

i2 0
i1 12
warp4x135 ix
sx kw
0
10
ix
kw

<h6015>

0
37
ix
kw

lo
lo

<h6016>
decimalsign |Markerupdate
44 |will normally
eq |be called
|with 1 1 as
se |the newx,newy
|as its input
|after any
togglenumsign |cleanse

<h6017>
basis jx
16 llmaintodance
jx
kw
dance
31
jx
kw sayctractive.

<h6018>
getfielddata= warp4x135
|In:x, y
|Gives:more?
|Action:Uses
|getlinetext;
|more?=can be
|more to come;
|to x y field sx

<h6019>
getlinenum getlinenum
s3 s3
s5 12
ix
i5
10
ix
kw kw

<h6020>
getlinenum gt
s3 an
37
ix d2
kw
i3
i5 i3
1 ex

<h6021>
getlinetext 51

s3 ix
wk

74
maxlen
|For both text
|and formula texttoyay

<h6022>
i3 gt
an

d2

i5 i3
2 ex

<h6023>
|Then the 74
|pairs of j5
|{type,val} getpairaya
|until nil |Can
52 |Always be
ix |More
wk dance.
t5

<h6024>
loadsaveddoc= t5
|In:disk#, s9
|card#, fnwarp s8
|fcminterface basis
|Gives:qtycard
|Loads a saved
|spreadsheet j5
|document cleansedoc

<h6025>
i8 n?
i9 ix
linetextstart n?
or
getlinetext
sx se
^SpreadSheet |At stk:basis
te ex

<h6026>
getlinenum se
sx
16
j5

kw

ix

n? ex

<h6027>

getlinenum ix

sx n?

n?

se

se

ex

togglenumsign sh

<h6028>

11:2000000000 i5

getlinetext n?

sx or

parseposname ix

s5 n?

s4 or

i4

n? t2

<h6029>

j2 i4

i5

getfielddata

d4 sx

<h6030>

j2 thelinecrd

n? lk

ix u2

an i9

su

ex

d6 lo.

<h6031>

xportthismany= t5

|In:qtyrows, s9

|disk#,card#, s8

|fnwrpinterfac sx

|Gives:qtycard |Will also

|All of row#1 |accept xport

|to qtyrows in |of fresh

|qtycards=>b9 |spreadsheet

<h6032>

f3quotel 0
lk jx
tx setlenandnil
i8
i9 |Pr column:
initputlntxt 14
t1
11:2000000000 11:4

<h6033>

i2
i1

isfieldfresh

dh

<h6034>

jx i2
tn i1
m2 tn
j1 tn
mm tn
up j5
tn tn
tn buildrowstr

<h6035>

lo okputlntxt
jx theputlncrd
putlntxt lk
i1 i9
ix su
lt ex

d6 lo.

<h6036>

f3savetx= haps i1} ==>
^.
*txtcomplete
longtxt* cliptrail
OVERWRITES!!!
Please type ri
ght location t f3savetx
o save to {per kl

<h6037>

f3save= tx
|In:x,y,fnwarp
|fcminterface
|Saves entire s8
|spreadsheet
typedinput
lk
sx s9

<h6038>

f3savetx

lk
10
24
bx

<h6039>

905 ci
23
8 s6
ix s5
19
ix
cliptrail
clipleading cleansetopbox

<h6040>

i5 tellf3cidiss
ye
i6 i9
ye i8
an jx
markerupdate

d6 ex

<h6041>

finddoclen j5
i5
i6
jx

savethismany

t5 tellf3success

<h6042>

1 4
allrownums 1
jx

markerupdate
dance 1
37 1
jx jx
kw markerupdate.

<h6043>
f3loadtx= ADSHEET IN RAM
^ . ==>
*txtcomplete
longtxt* cliptrail
Place of saved
spreadsheet,
eg i1? NOTE:TH f3loadtx
IS CLEAR SPRE k1

<h6044>
f3load= tx
|In:x,y,fnwarp
|fcminterface
|Loads saved s8
|spreadsheet
typedinput
lk
sx s9

<h6045>
f3loadtx

lk
10
24
bx

<h6046>
905 ci
23
8 s6
ix s5
19
ix
cliptrail
clipleading cleansetopbox

<h6047>
i5 tellf3cidiss
ye
i6 i9
ye i8
an jx
markerupdate

d6 ex

<h6048>

j5

i5

i6

jx

loadsaveddoc

t5 tellf3success

<h6049>

1 4

allrownums 1

jx

markerupdate

dance 1

37 1

jx jx

kw markerupdate.

<h6050>

f3exporttx= eg c9000 ===>

^.

*txtcomplete

longtxt* cliptrail

Export {1-way}

to B9edit of

sums etc, pls f3exporttx

type location, kl

<h6051>

f3export= tx

|In:x,y,fnwarp

|fcminterface

|Exports to s8

|b9edit format

typedinput

lk

sx s9

<h6052>

f3exporttx

lk

10

24

bx

<h6053>
905 ci
23
8 s6
ix s5
19
ix
cliptrail
clipleading cleansetopbox

<h6054>
i5 tellf3cidiss
ye
i6 i9
ye i8
an jx
markerupdate

d6 ex

<h6055>
finddoclen j5
i5
i6
jx

xportthismany

t5 tellf3success

<h6056>
1 4
allrownums 1
jx
markerupdate
dance 1
37 1
jx jx
kw markerupdate.

<h6057>
keyf3menutx1= EXPORT result
^. to B9EDIT
*txtcomplete
longtxt* cliptrail
MENU:<1>SAVE {
backup often}
<2> LOAD {as s keyf3menutx1
aved by 1} <3> kl

<h6058>
keyf3= tx
|in:x,y,fnwarp

|to interface
|Subroutine of s8
|fcminterface,
|processes
|press of
|<f3> key s9

<h6059>

cleansetopbox keyf3menutx1
lk

10
24
bx

<h6060>

ki
48
su
sx

cleansetopbox

<h6061>

ix i9
1 i8
eq jx
n? f3save

d6 jx
rewriteallpos

<h6062>

ix i9
2 i8
eq jx
n? f3load

d6 jx
rewriteallpos

<h6063>

ix i9
3 i8
eq jx
n? f3export

d6 jx
 rewriteallpos

<h6064>

10 |The reason we
jx |fetch the
wk |marker x y
12 |anew is that
jx |load always
wk |likes to
jx |reaffirm the
markerupdate. |new start! :)

<h6065>

setdnumissutx= he formula. Cf
^ . r manual. :)
 *txtcomplete
longtxt* cliptrail
Please: do era
se a formula,
then use this, setdnumissutx
 then retype t kl

<h6066>

setdnumissue= setdnumissutx
|Action: tells
|to pls change
|only non-
|formula field lk
 10
 24
 bx

<h6067>

1200
activepause
kb
ki
sh

cleansetopbox.

<h6068>

setdnumthistx= W etc} ==>
^ .
 *txtcomplete
longtxt* cliptrail
Pls type qty o
f decimals {cf
r docs for num setdnumthistx
ber sizes, DIV kl

<h6069>

```
setdnumthis= xyto4x135
|In:x,y,fnwarp warp4x135
|fcminterface tx
|Sets pos4x135
|qty decimals |What type?
typedinput 10
lk jx
sx wk
```

<h6070>

```
|Type3=formula setdnumthistx
3
eq
n?
d2 lk
10
setdnumissue 24
ex bx
```

<h6071>

```
955 intonum
23 cleansetopbox
1
ix 0
19
ix 8
cliptrail makefit
clipleading s5
```

<h6072>

```
37 scaleint
jx 12
wk jx
i5 kw
i5
12 37
jx jx
wk kw.
```

<h6073>

```
setdnumalltx1= LL OVER? Y/N <
^. ENTER>=Y
*txtcomplete
longtxt* cliptrail
Only affects f
ormulae made A
FTER this. Cha setdnumalltx1
nge decimals A kl
```

<h6074>

```
setdnumalltx2= r sizes, DIVW
```

```
^.          etc} ==>
           *txtcomplete
longtxt*   cliptrail
Global setting
  of qty of dec
imals {cfr doc setdnumalltx2
s as for numbe kl
```

```
<h6075>
maybednumcha= s3
|in:qty,x,y   s2
|action:      s1
|subroutine in
|setdnumall,
|changes
|qty decimals
|for nonformul
```

```
<h6076>
           10
           jx
           wk
```

```
i2
i3
warp4x135
           3
tx         eq
```

```
<h6077>
se         37
           jx
           wk
ex
```

```
i1
```

```
<h6078>
12         i1
jx         37
wk         jx
scaleint
12
jx
```

```
kw         kw.
```

```
<h6079>
setdnumall= setdnumalltx1
|action:asks;
|then sets qty
|decimals all
```

|nonformfields lk
typedinput 10
lk 24
sx bx

<h6080>

955 parseyenter
23 n?
3
ix
kb se
19
cleansetopbox
ix ex

<h6081>

cleansetopbox

setdnumalltx2
lk
10
24
bx

<h6082>

955 intonum
23 cleansetopbox
1
ix 0
19
ix 8
cliptrail makefit
clipleading s5

<h6083>

ll:135 lo
ll:4

i5
i2
i1
maybe numcha lo.

<h6084>

toggrouptx1= any key, eg <S
^.
PACE>, thanks
*txtcomplete
longtxt* cliptrail
Toggling group
ing of digits
{eg 1,234,567} toggrouptx1

on/off: press kl

<h6085>

```
toggroupnums= tx
|In: fnwarp
|fcminterface toggroupntx1
|Action: lk
|toggles flag
|#3 connected 10
|to use of 24
|groupsigns bx
```

<h6086>

```
kb 16
jx
wk
ki
sh n?
16
jx
cleansetopbox kw.
```

<h6087>

```
togcommadtx1= "," use. Pls p
^. res <space>
*txtcomplete
longtxt* cliptrail
When you use n
umbers like 99
,999.00, this togcommadtx1
switches "." & kl
```

<h6088>

```
togcommadot= tx
|In: fnwarp
|fcminterface togcommadtx1
|Action: lk
|toggles
|global comma 10
|and dot 24
|settings bx
```

<h6089>

kb

ki

sh

cleansetopbox togglenumsign.

<h6090>


```
keyf8menutx1= 1,234 <4>switc
^ .          h comma & dot
            *txtcomplete
longtxt*     cliptrail
MENU:<1>decima
ls this field
<2>all over <3 keyf8menutx1
>group digits kl
```

<h6091>

```
keyf8=      tx
|in:x,y,fnwarp
|to interface
|Subroutine of s8
|fcminterface,
|processes
|press of
|<f8> key   s9
```

<h6092>

```
cleansetopbox keyf8menutx1
lk
```

```
10
24
bx
```

<h6093>

```
ki
48
su
sx
```

cleansetopbox

<h6094>

```
ix          i9
1           i8
eq          jx
n?         setdnumthis
```

```
           jx
d4         rewriteallpos
```

<h6095>

```
ix          setdnumall
2
eq
```

n?

d3 jx
rewriteallpos

<h6096>

ix jx
3 toggroupnums
eq
n?

d4 jx
rewriteallpos

<h6097>

ix jx
4 togcommadot
eq
n?

d4 jx
rewriteallpos

<h6098>

i9
i8

jx
markerupdate.

<h6099>

keyctr= tx
|in:fnwarp
|to interface
|Subroutine of
|fcminterface,
|processes
|press of
|ctr-t

<h6100>

31 sayctractive
jx jx
flipgram llmaintodance
ex
sayctrtslash
ex

d4 tn
tn.

<h6101>

fcminterface= |#10:row# top
|in:tr#,fnwarp |#1:scrx;scry
|Action: show |#5:flag cls?
|& edit whole |#8:flag ctrt:
|spreadsheet | #5 assumes 1
tx |#9:compvars
sh |#3:groupsign?
|triplet-uses: |l#1:refreshfn

<h6102>

jx jx
fetchllmain |the #5 flag
n? |called 'cls'
|The #9 tripl |is typically
|for compos & |only used in
|qtydecimal by |the startup
|'compileform'
d2 refreshallpos

<h6103>

31 jx
jx |The tr#3 flag
wk |says: should
|ctr-t flag |numgroupsign
s9 |be employed,
i9 |eg 1,234,567,
|all fields
d2 llmaintobasis

<h6104>

10
jx
wk
s3
12
jx
wk
s4

<h6105>

22 spreadsheet
jx
solvegram

n?

i3
i4

d4 posclsblack

<h6106>

advancedck i9
n? an

|Up,beneath, se
|right,left--
|273, 274,
|275, 276;
|keycodes ex

<h6107>

ki q4
sx
273
ix i3
eq i4
n? jx
markerupdate
d6 ex

<h6108>

274 h4
ix
eq
n? i3
i4
jx
markerupdate
d6 ex

<h6109>

275 h3
ix
eq
n? i3
i4
jx
markerupdate
d6 ex

<h6110>

276 q3
ix
eq
n? i3
i4
jx
markerupdate
d6 ex

<h6111>

ix i3
278 i4

|Ascii:<home>

eq

n? jx

keyhome

d5 ex

<h6112>

ix i3

13 i4

|Ascii:<enter>

eq

n? jx

keyenter

d5 ex

<h6113>

ix jx

280

|Ascii:<pgup> keypgup

eq

n?

d3 ex

<h6114>

ix jx

281

|Ascii:<pgdn> keypgdn

eq

n?

d3 ex

<h6115>

ix i3

277 i4

|Ascii:insert

eq

n? jx

keyinsert

d5 ex

<h6116>

ix i3

284 i4

|Ascii:<f3>

eq

n? jx

	keyf3
d5	ex
<h6117>	
ix	i3
289	i4
Ascii:<f8>	
eq	
n?	jx
	keyf8
d5	ex
<h6118>	
ix	jx
20	
Ascii:<ctr-t>	keyctr
eq	
n?	
d3	ex
<h6119>	
ix	elegantleave
27	
Ascii:<esc>	
eq	
n?	
d2	ex.
<h6120>	
twobillion	
setfundlevel	
	basis
	3999
&fcminterface&	basis
3999	&spreadsheet&
fnactcherish	fneasyact
<h6121>	
dance	dance
5	10
tripletpos	adjustfund
adjustfund	
dance	
8	dance
tripletpos	12
adjustfund	adjustfund

<h6122>

dance

10

tripletpos

adjustfund

|Triplet#10

|tells which

|rownumber

|is at y=1

<h6123>

|The refreshfn |qty links:

|is checked 1

|by all the 47

|spreadsheet adjustfund

|positions, &refreshfn&

|when flag 1, fnam

|full recalc 50

|takes place adjustfund

<h6124>

now= 450

250

af

^spreadsheet ad

pp activepause

^starting! *** fcm

pp |Optionally:

qu.

<h6125>

&now&

zz

FINIS