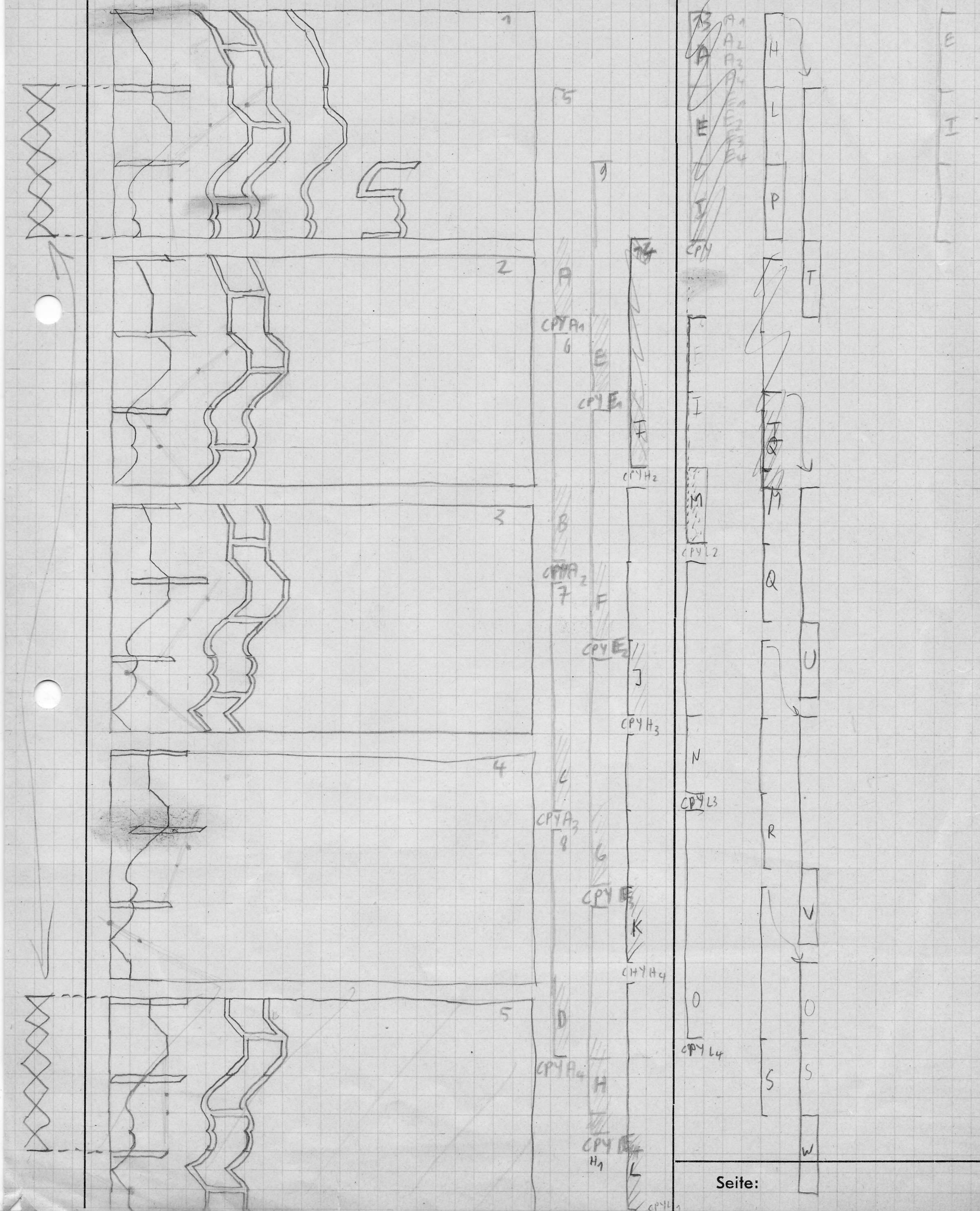
Name: Wohnort: Strasse: Stud. Nr.

Kursus: Elektrotechnik

Lehrbrief Nr.

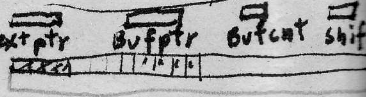


Seite:

- HW SCROLL ROUT
- set next screenadr
- calc the distorter
  - # scroll left/right if necessary (NACHSCHUB!)
- copy buffer to screen (using dist tab)
- open border ~~old~~ MMU
- gest digisound
- open border new MMU
- copy buffer to screen
- (-vblwait)
- gest megadist-scroll

126 124 122
115 113 111 109
102 100 98 96
89 87 85 83
76 74 72 70
63 61 59 57
50 48 46 44
37 35 33 31
24 22 20 18
11 9 7 5 3 1
12 10 8 6 4 2

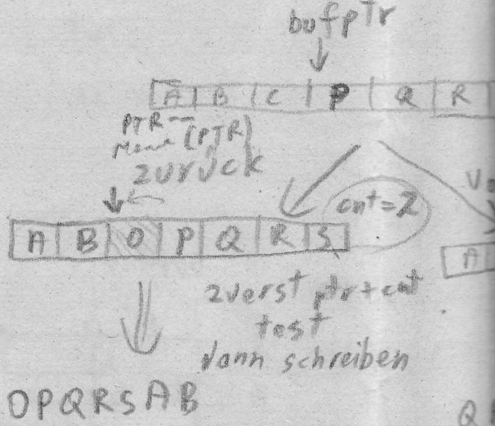
Memory:

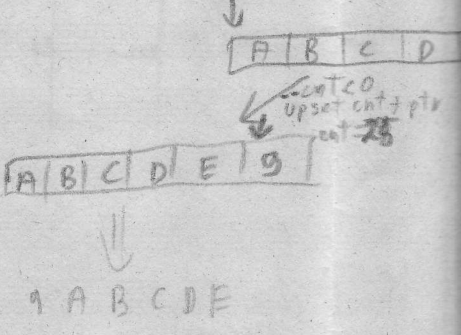


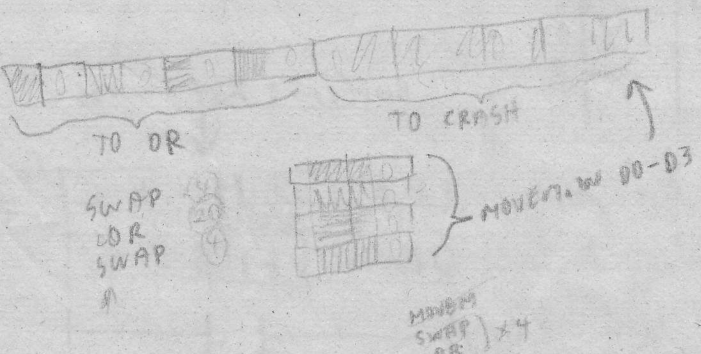
COPY

Get

Ge







SWAP 4
OR 20
SWAP 4
A

NACHSCHUB:

1 Line: 60 × 16 = 960 cyclen
= 240 nops
= 6 lines

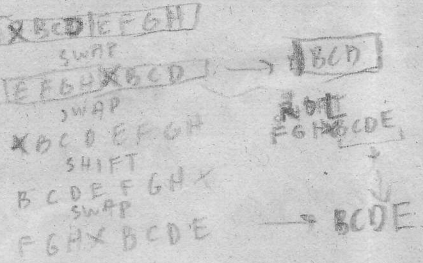
32

~~32 lines: 192 lines~~

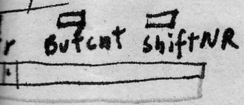
```
SWAP
OR      ×4
SWAP
MOVEM
ADDL X  ×4
SWAP
OR
SWAP
ADD
```

8 ← → 12
4 — 0
— 0 8
4

```
MOVEM
SWAP  ×4
OR
ROL   ×4
OR
SWAP  ×4
MOVEM
ADDLX ×4
```



ry:



BUFF line 1 0(4 planes) 25×16 pix × 16

shif1
2
3
:
15

COPYROUT:

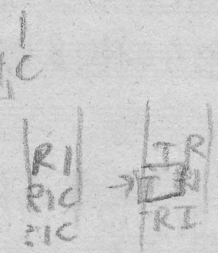
Get BUFFER.LADRESS ADD ~~shift.w × 208~~

Get Bufcnt.w

JUMP TO CPYROUT(BUFCNT)

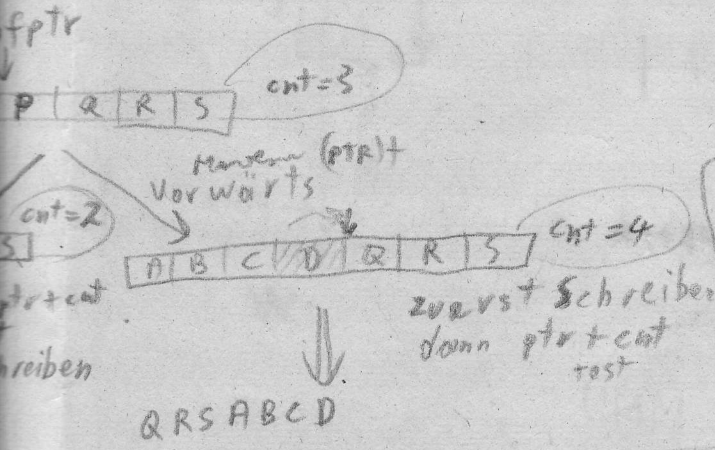
76 / 64 / 128

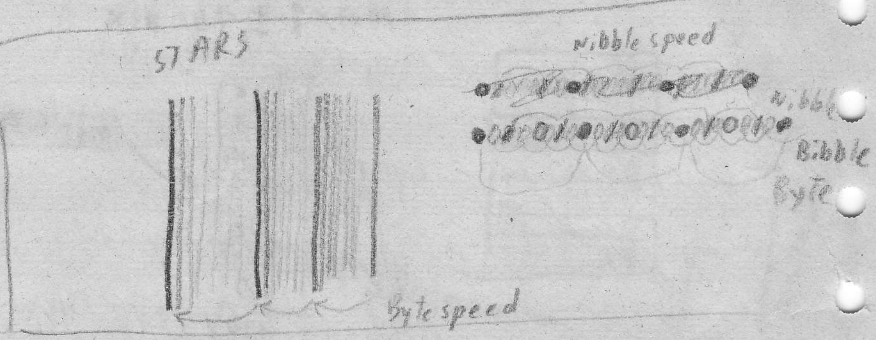
9/2

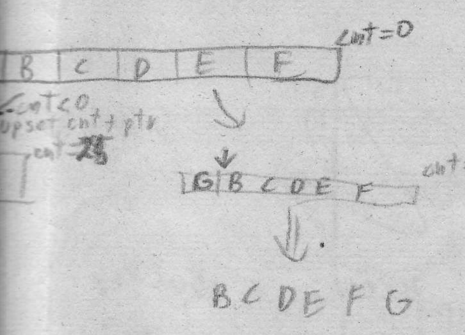


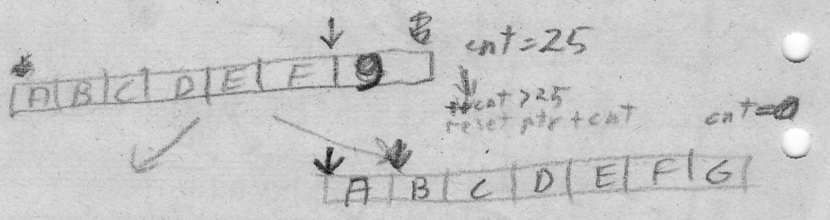
Registers   Digi

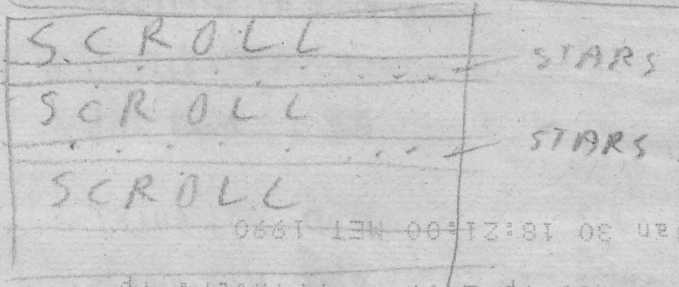
Regoolist
2 ADR   1ADR
Digi







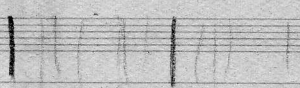


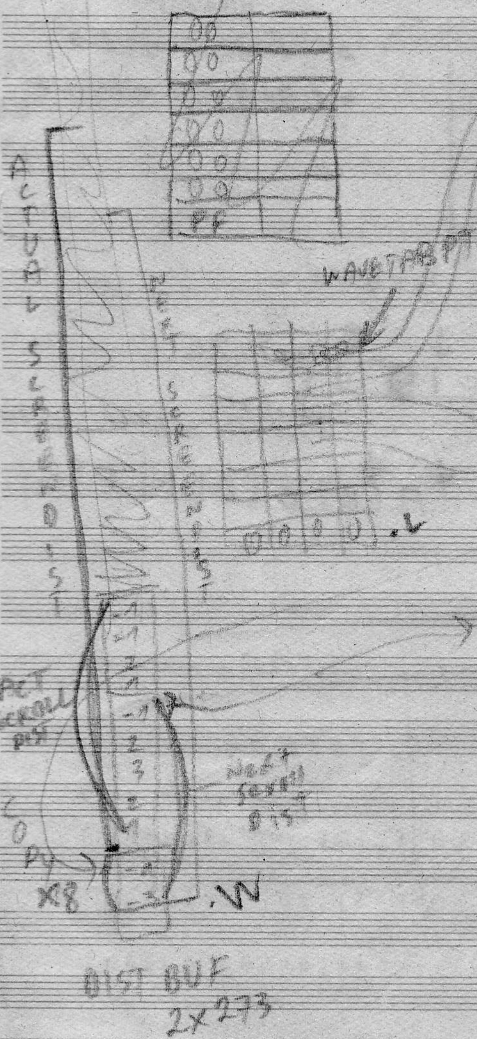


30 zyclen
48 nops
lines
~~lines~~

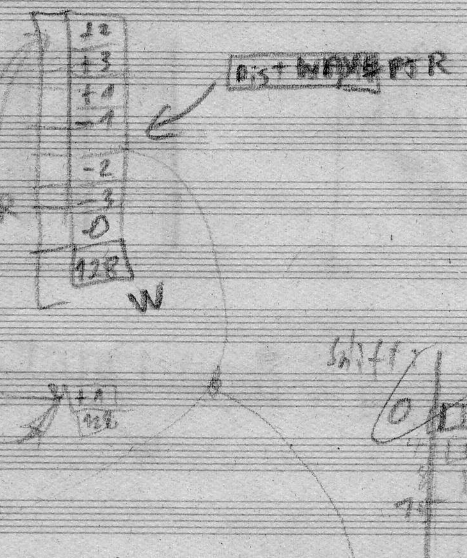
192

MAX? ±16 pix

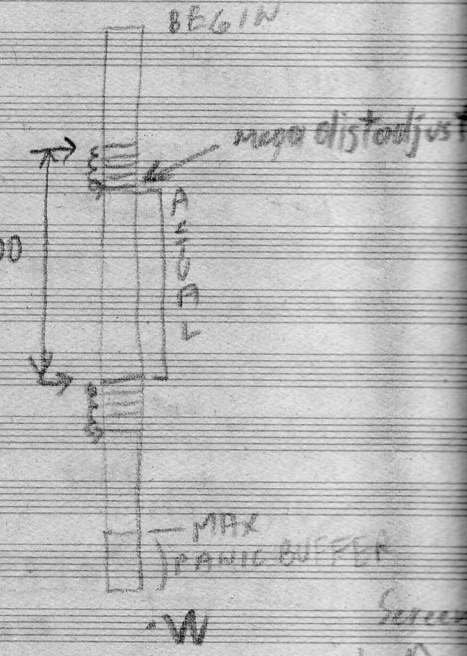




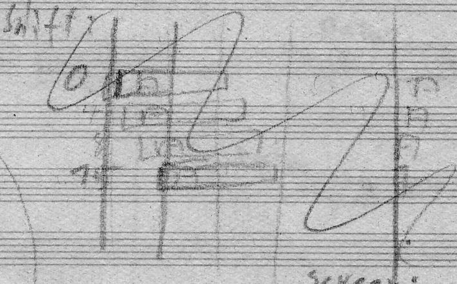
DIST BUF
2x273



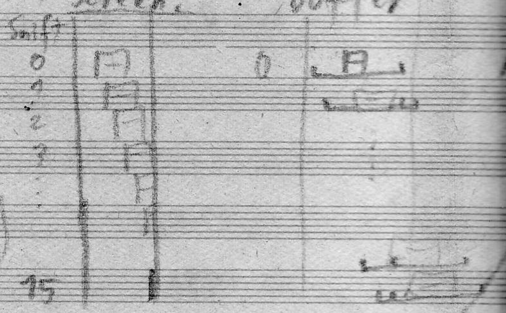
```
read (ptr)+,D0
CMP.B #128,D0
BEQ Next tab

ADD D0,SHIFT
BLO Vorwärts      → (SHIFT+16)
CMP 16,SHIFT
BHS Rückwärts     → (SHIFT-16)
```



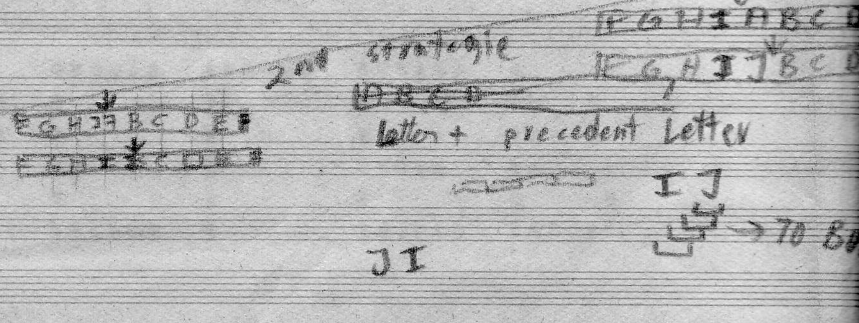
Screen



Screen: Buffer



2nd strategie



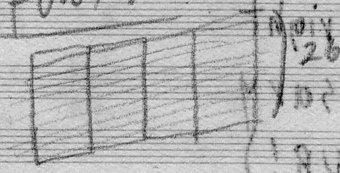
letter + precedent Letter

J I

BEGIN

mega distadjust

FONT: 4 planes



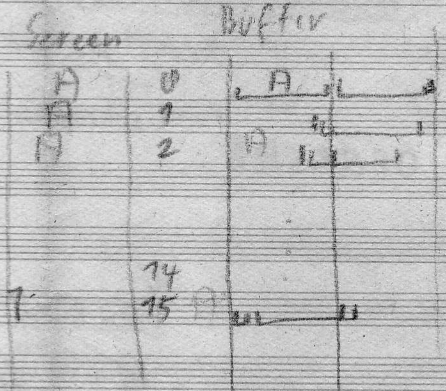
HIJ

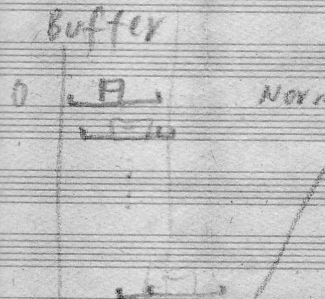
A a
B b

ABCD
AaBbCcDd
abcd

-MAX
PANIC BUFFER

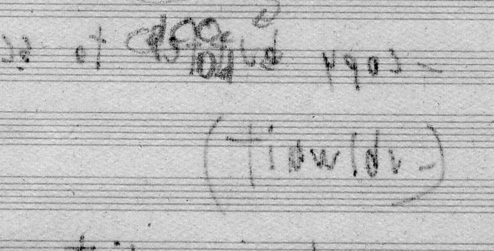
W





NACHSCHUB: VORWÄRTS

Buffers: 26+1 words



COPY

FGHIABCDE

FGHIJBCDE

dent Letter

IJ

→ TO BUFFERS

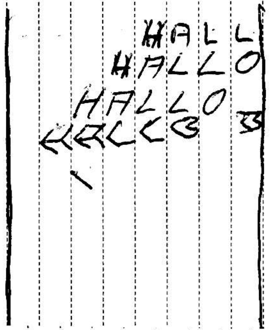
HABCDEFG

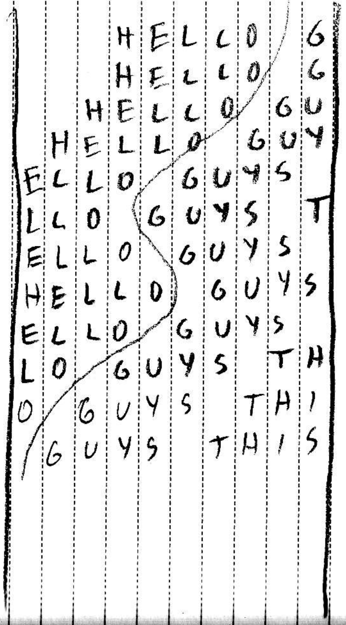
HAB GH

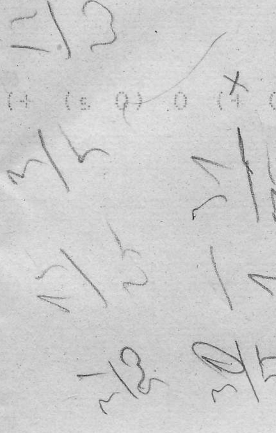
~~[illegible]~~ COPY 4WORDS

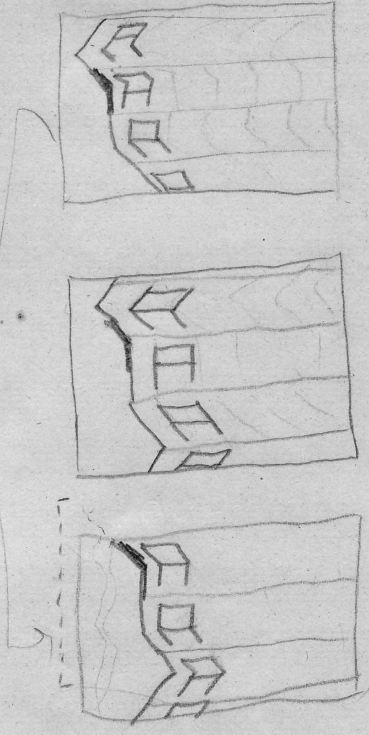
OK GH

GH


HALL
HALLO
HALLO
←HALLƐ Ɛ

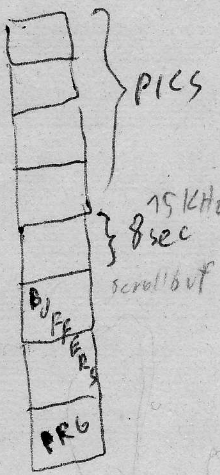

HELLO G
HELLO G
HELLO GU
HELLO GUY
ELLO GUYS
LLO GUYS T
ELLO GUYS
HELLO GUYS
ELLO GUYS
LO GUYS TH
O GUYS THI
GUYS THIS



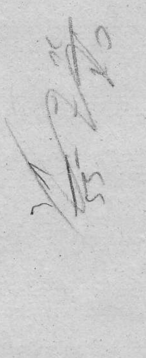


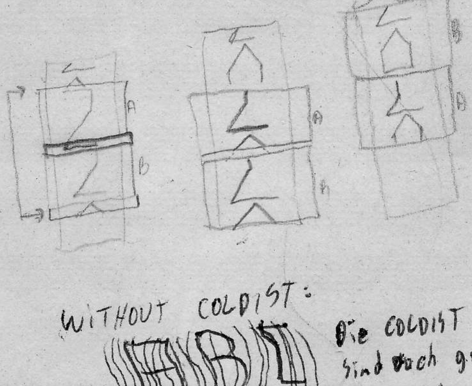
64K

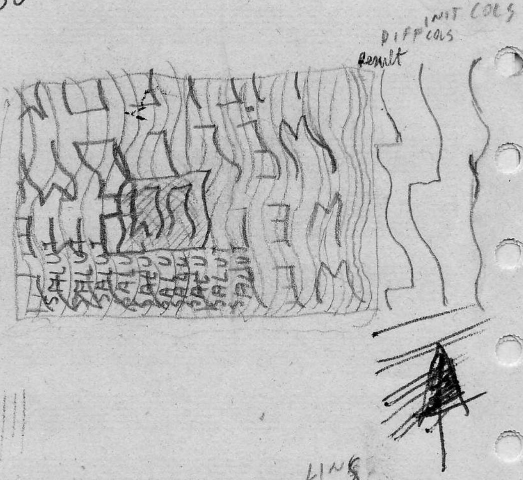
64K



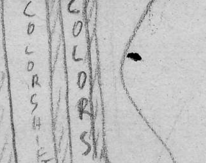
↕32
↔230
) x16 ≤ 128K





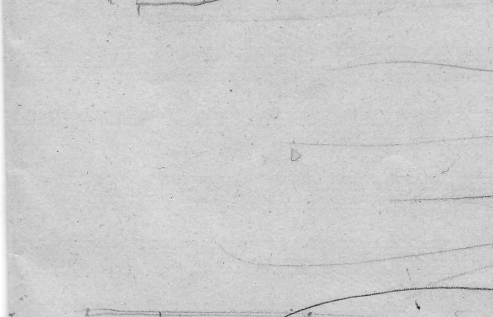


WITHOUT COLDIST:

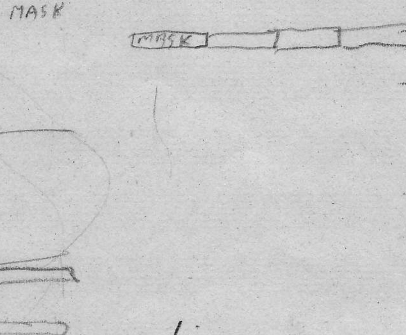


Die COLDIST linien sind doch gedistet! Gegensteuern...

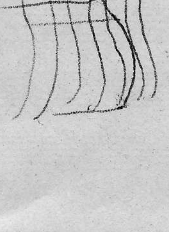
TIME DIAGRAMM

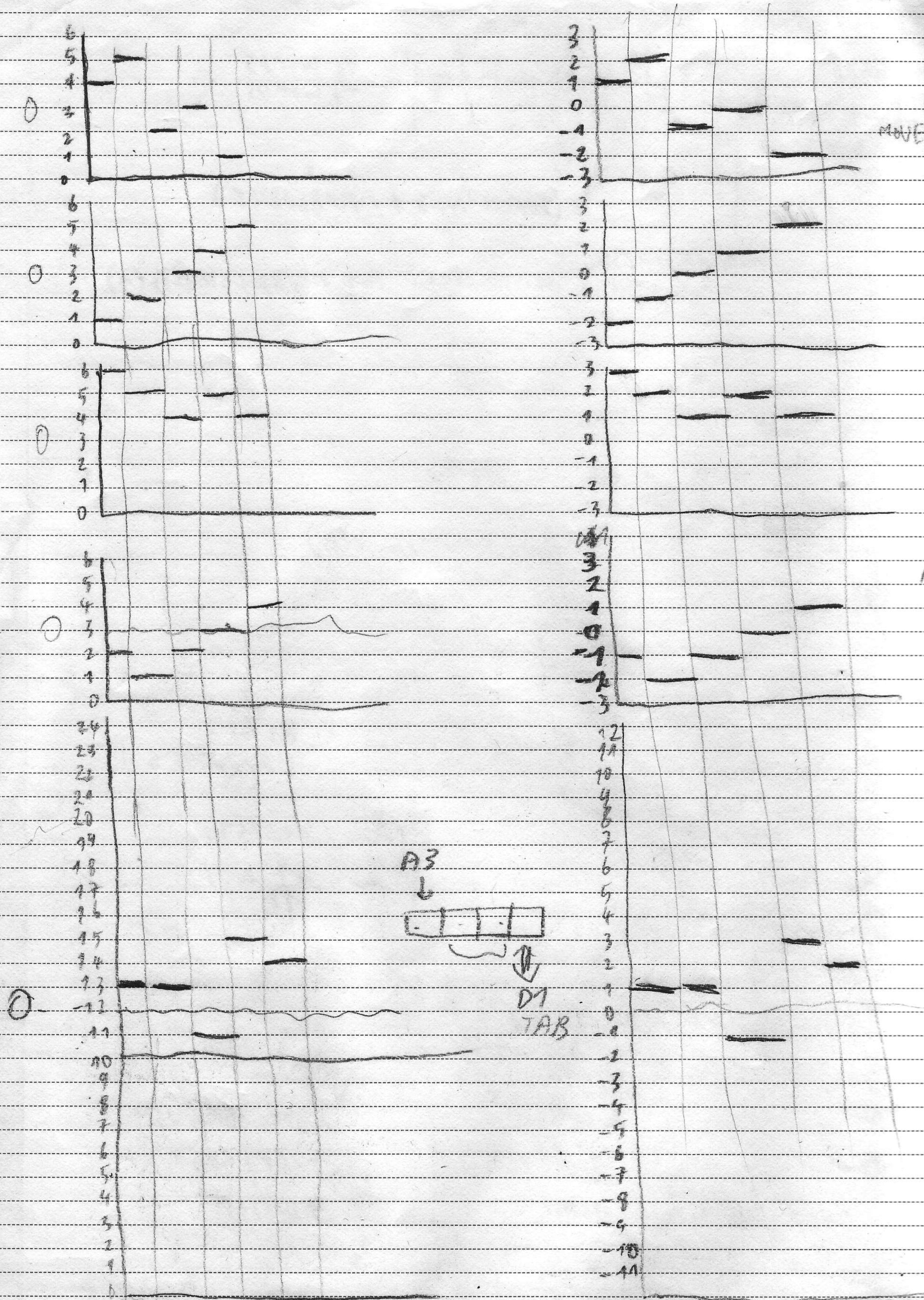


8 couleurs = 3 planes



LINS AND MASK = LINS OR FONT (shifted) = LINS





MOISTADJUST
MOVES WITH SC

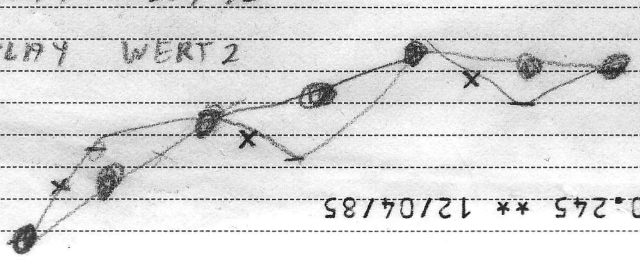
2x

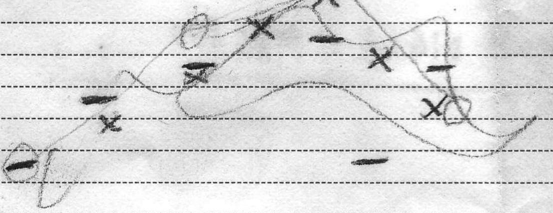
M
MOVES WI
AND

SCREEN
512 - 320 = 192 ~

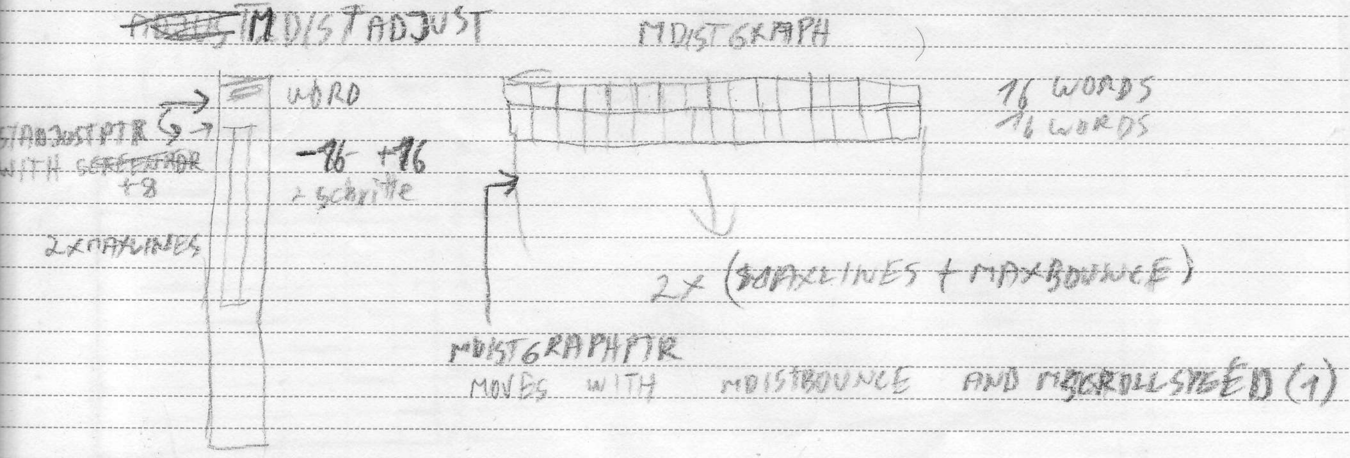
44

WERT1
PLAY WERT1
Reset WERT2
PLAY WERT1/2
PLAY WERT2

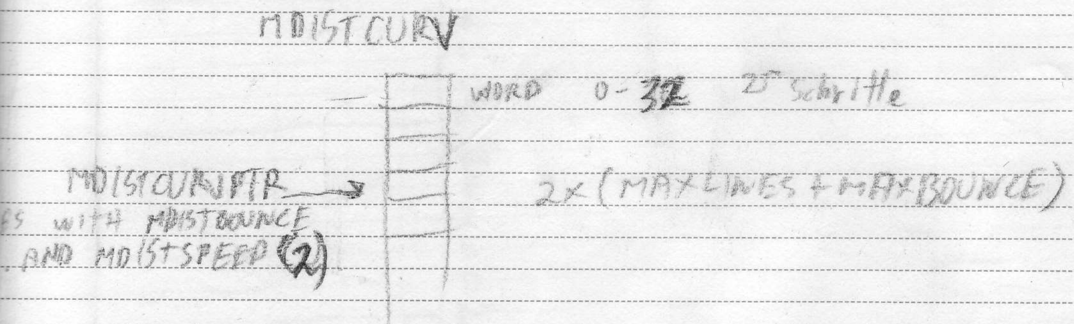


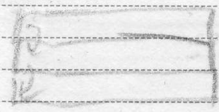


JOB £3427 MCPII ** MARK 11.0.245 ** 12/04/85



3+3+3+3 =





DIGI:
25 NOPS

```
         A3
Move.w  (MDISTCURVPTR)+, D0
         A4
ADD.w   (MDISTADJUSTPTR)+, D0
         A5
MOVEM.L (MDISTGRAPHPTR, D0), D0-D3
<switch open right>
lea     32(MDISTGRAPHPTR), MDISTGRAPHPTR      2
```

2
2
13

MDIST:
~~17~~ NOPS
17

MDIST:	DIGI:	REST:
3 ADR	2 ADR	2 ADR + SP/USP
4 COPY REG	1 COPY REG	4 COPY REG
	1 DATA	3 DATA

PROGRAM 243007

```
      BUFF       FONT1      FONT2      MBUFF
12 - 85   = 107 - 22  =  85 - 10  = 75 - 21  = 54 -
      585
```

OHNE DIGI: 480 800

460

3 - 16
702

Double Dist Speicher:

Font höbe x 16 x 40

höbe x 640

Word shift Font: höbe x ~~24~~ x40

höhe x 960 x 16 = h x 15360

byte Shift Font: höbe x $\overset{?}{\overbrace{24}}$ x 40 x 8 = h x 7680

18	138240	276480
20	153600	307200

vergiss es !!

SCREEN: 280 x 230 x 5 = 322000

FONT: 32 x 640 = 20480

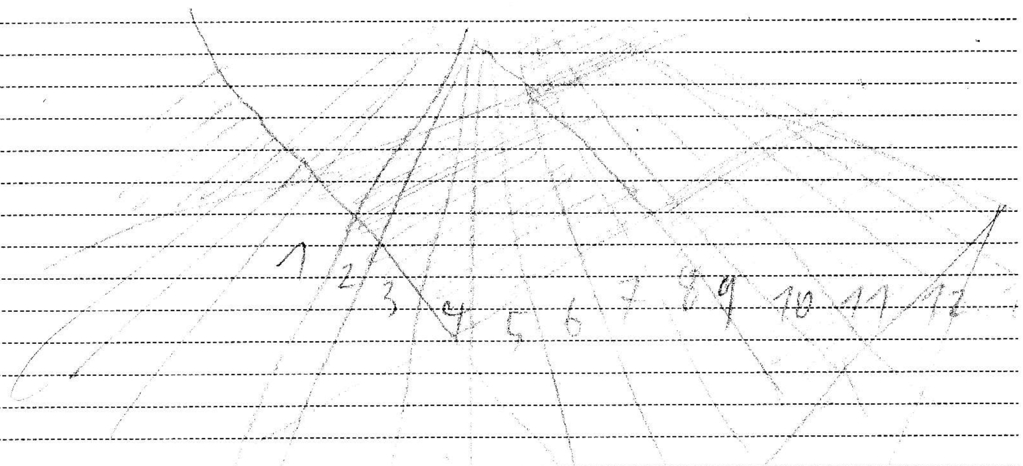
Rest : 169520

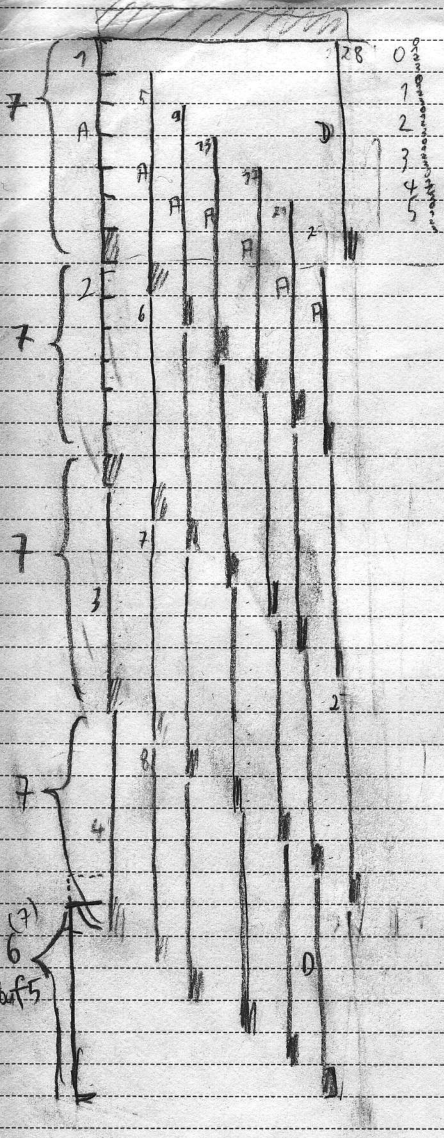
Buffers : 26 x 208 x 16 = 86528

estimation : McDisttab 20 000

PROGRAM 20 000

Rest 40000 = 10 sec





Nextscrn=0 ~~IF~~ CNT= 28:

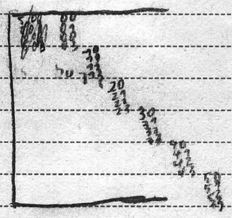
⇓

→ set nextscrn to 1st scrn

→ Set cpybuf to (buf5 − 1 scroll)

→ ~~GET~~Set destcpybuf to 1st buf−1s

7 Scrolls / BUFF



1c1 : 14 scrolls

1 Buff = 28

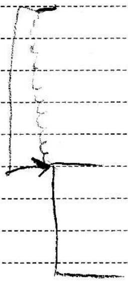
14 · 4 =

9
84400
64400-2
84400-
20-230

*

)

-1scroll



ralls/Buff

= 280 lines (=> Bounce = 6to)

= 56 adresses

0

+400 230 · 280

+400·2 230 · 2·280

+400·3 230 · 3 · 280

+230 230 · 20 · +2

230 · (280+20)

230 (2·80+20) · 2

230 (280+20) · 3

230 20·2

230 1 280 + 20 · 2

230 2 280 + 20 · 2

230 3 280 + 20 · 2

230 · (0 · 280 + 3 · 20)

230 · (1 · 280 + 3 · 20)

230 · (2 · 280 + 3 · 20)

230 · (3 · 280 + 3 · 20)

230 · (0 · 280 + 4 · 20)

230 · (1 · 280 + 4 · 20)

230 · (2 · 280 + 4 · 20)

280 · (3 · 280 + 4·20)

0 1 2 3 4 5 6 7 8 9 : ; (-)

? ! A B C D E F G H I J K

L M N O P Q R S T U V W

13 X 20 Reg = 1040 = 208 · 5

X Y Z ⊔

(nextscrn) = scrnadrs + 4

75

21