

RECOMP II USER'S PROGRAM NO. 1106

PROGRAM TITLE: PAGINATION ROUTINE
PROGRAM CLASSIFICATION: Service
AUTHOR: W. Wellman
Servomechanisms, Inc.
Research Division
Goleta, California
PURPOSE: To simplify format control of
tabular typewritten output.
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PURPOSE: To a simplify format control of tabular typewritten output.

USE: Lines per paragraph and paragraphs per page are specified. Carriage returns are placed automatically between paragraphs. Upon completing a page, page number is printed and computer halts.

**CALLING
SEQUENCE:**

1. This routine can be called by the pseudocommand "XCR" (-12) with SMI's trapping made interpretive routine.

(a) To reset counters to page one, line one, use:

XCR 0000.0

Nothing is typed by this instruction.

(b) To type a carriage return at the end of a line of printing, use:

XCR (any address but zero)

A letter shift and one or two carriage returns (two, to end a paragraph; one, otherwise) are typed and the computer goes on to the next command in sequence, except at the end of a page, where the page number is printed and the computer halts. Pushing the "start" button (after changing paper) causes the computer to transfer to the address of the XCR instruction and begin computation there (to pick up page titling instructions, for example).

2. For use without the trapping mode routine, use

0.1 TRA (Loc'n of this routine)

1.0 PZE (address)

The address designated is the same as that of the XCR command above, and must be in the left half-word.

ENTRY AND EXIT: The contents of both A and R are saved so that they always appear unchanged upon return from this routine.

DATA: (loc'n + 46) lines per paragraph @ 39 (presently 5)
(loc'n + 47) paragraphs per page @ 39 (presently 8)
(loc'n + 44) Baudot for 8 characters to be printed after the page number (presently letter shifts).

RESTRICTIONS: Pages up to 99 are numbered correctly.

STORAGE: 50 (octal) sectors, relocatable.

FILE UNITERMS: Page, Paragraph, Table

Program No. 141-R Title (XCR) PAGINATION

Programmed by: W Wellman Date 9-8-61

Loc'n	Cm'd	Addr.	Contents	Accumulator	b	Remarks
..00	F.S.T	..420			..	
...	S.AX	..030			..	
...1	A.DD	..140			..	) set return, etc
...	S.T.O	..030			..	
...2	A.DD	..060			..	
...	S.T.A	..131			..	
...3	C.L.A	..160			..	
...	EXT	---		code in left	..	
...4	T.ZE	..321		zero →	..	
...	S.T.A	..370	exit II	no	..	
...5	F.C.A	..340	) bump line number		..	) bump line number
...	A.DD	..410			line number @ 39	
...6	S.T.O	..410		line number @ 79	..	
...	X.A.R	0000.1	0 → A	line number @ 79	..	
...7	D.I.V	..460	lines / P	P " @ 39	..	
...	T.Y.C	00.370			..	
...10	S.V.B	..470	P / page		..	
...	T.ZE	..200			..	
...1	T.ZE	00700			..	BCD for: sp 00 term
...	X.A.R	0000.0	) type 2 nd C.R.	remainder: P no.	..	) type C.R.
...2	T.Y.C	00.100				
...	T.ZE	..111			..	
...3	F.C.A	..420		end	..	
...	T.R.A	---			..	
...4	C.L.A	..160	"bump"		..	
...	EXT	00.001	used in 01	end	..	
...5	C.L.A	..450	10 @ 39	page	..	← here to suppress
...	T.R.A	..230			..	→ leading zero
...6	+00	77.771	) masks left loc'n		..	
...	-00	0.0000				
...7	-41	054.11	baudot:		..	
...	+50	1.1.0.0.0	CR CR PAGE		..	
...20	F.C.A	..340	zero → R		..	) bump page number
...	A.DD	..400			..	
...1	S.T.O	..400		page number @ 39	..	}
...	X.A.R	00.000		" " @ 79	..	
...2	D.I.V	..450	10 @ 39	10's digit @ 39	..	}
...	T.ZE	..150			..	
...3	A.L.S	000.40		" @ 35	..	} get BCD for page number
...	S.T.O	..410	temp		..	
...4	X.A.R	00.000		units digit @ 39	..	}
...	A.DD	..410	ten's digit @ 35		..	
...5	A.L.S	00.330		XX _A	..	}
...	A.DD	..110	sp 00 term		..	
...6	S.T.O	..410			..	} Print "page"
...	C.L.A	..170		CR CR PAGE sp	..	
...7	T.Y.C	77.770			..	} Print BCD
...	T.Y.W	..411		sp XX	..	

