WANG

Word Processing Systems

Mathematics Support Package
Applications User Manual

Word Processing Systems Mathematics Support Package Applications User Manual

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This manual provides operating instructions for six glossarized applications of the Wang Mathematics Support Package. Each of the applications is designed to quickly and easily perform mathematical calculations on tables (rows and columns) of numbers in a document on the Wang Word Processor System disk(ette).

It is suggested that the user be familiar with usage of Wang Glossary (see the Wang Glossary User Manual 700-4624) before performing the following applications:

a. Add Rows.

b. Add and Grand Total Rows.

c. Add Columns.

d. Add and Grand Total Rows and Columns.

e. Add and Grand Total Columns.

Further, it is essential that the user also be familiar with usage of the Wang Mathematics Support Package (see the Wang Mathematics Support Package User Manual 700-4671) before performing the following application:

f. Perform Functions on Rows.

It should be emphasized that while these six applications produce totals and insert them into a document, these totals are only as accurate as the numbers already present in the document. It is the responsibility of the user to ensure that the numbers to be totaled have been entered correctly and accurately prior to execution of any of these applications.

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CHAPTER 1 INTRODUCTION

The Wang Word Processor Mathematics Support Package Option is designed to allow the user to perform common mathematical functions on numbers which are part of any standard Wang Word Processing document. Applications such as totaling columns of numbers, crossfooting, determining percentages, and many others can be performed simply, easily, and accurately on the Word Processor, without the aid of any external calculator or computer.

The Math Support Package Applications go a step further. Because repetitive keystrokes are stored through Wang's Glossary (see Glossary User Manual 700-4624), these applications require only two operator keystrokes to automatically perform a variety of row and/or column additions, and then check operator-entered totals to either flag those incorrect or to insert new totals.

The six applications are listed below. Each application is stored on a separate document and, after retrieval from Archive, can be Recalled by touching GL (the Glossary key) followed by the appropriate Entry Label (a, b, c, d, e, or f).

DOCUMENT ID	NAME	GLOSSARY ENTRY	DOCUMENT FORMAT
9917	Add Rows	(a)	X X X t X X X t X X X t
9918	Add and Grand Total Rows	(b)	X X X t X X X t X X X t T
9919	Add Columns	(c)	X X X X X X X X X t t t

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9920	Add and Grand Total Rows and Columns	(d)	X X X t
			X X X t
			X X X t
			t t t T

9921	Add and Grand Total Columns	(e)	X X X
			X X X
			X X X
			t t t T

| 9922 | Perform Functions on Rows | (f) | (varies) |

CHAPTER 2 GENERAL RULES

The following rules should be observed when using any of the Mathematics Support Package Applications:

1. Each number to be added must be preceded by a Decimal Tab.

2. There must be the same number of Decimal Tabs in each row.

3. After the last row in the table, the user must insert a line of spaces (minimum of 15 spaces) followed by a line of Decimal Tabs. Each of the applications checks for the line of spaces to determine the end of the table. There must be exactly as many Decimal Tabs on the last line as there are columns in the table. This rule applies to all Glossaries except 9921. When using 9921, add and Grand Total columns which require one more Decimal Tab for the grand total.

4. During row addition, the last Decimal Tab is reserved for totals. If a number is already present, it is compared to the computed total. Then,

    a. If the numbers are the same, the system goes to the next row.

    b. If the numbers are different or are not entered, the computed total replaces the number, and the flag ## is inserted.

        NOTE: This means that if there are (for example) four Decimal Tabs on each row, only the first three numbers are added to produce a total that is inserted, or replaces the number following the fourth Decimal Tab. Depending on the application, the user will sometimes want to insert a final Decimal Tab on each row for storage of results.

5. During column addition, the last row (the first row immediately following the line of spaces) is reserved for totals. This functions like 4 above. There must be as many Decimal Tabs on this row as there are columns to be totaled.

6. In the applications using Grand Totals, an extra Decimal Tab must be included on the last row. If this is missing, errors may occur.

7. After any application is performed resulting in the ## flag, touching GL, x will delete all the ##'s and will display the message "Document Complete" and sound an audible tone.

8. Text is allowed only on the far left of any or each row. Text is not allowed between columns of numbers, on the right side of any row, or between rows.

9. The system displays the messages "Too Few Columns" or "Too Many Columns" if the document does not contain the proper amount of columns.

CHAPTER 3 ADDITION OF ROWS

Adds rows of numbers, determining a total for each row. Inserts each answer immediately following the last Decimal Tab on that row.

a. Maximum number of columns - 13 (12 columns to be added, 1 column to insert the answer).

b. Minimum number of columns - 3.

c. Maximum number of rows - no maximum.

3.1 OPERATION

1. Retrieve from Archive, then Attach Glossary 9917.

2. While in Edit of the document with rows to be added, touch GL. The system prompts, "Which Entry?".

3. Touch a. The system prompts "Position Cursor".

4. Position the cursor to before the start of the rows to be totaled.

5. Touch EXECUTE.

6. The system performs several intermediate steps, then adds each row and inserts the total immediately following the last Decimal Tab on that line.

    a. If there is already a correct total there, the new total is not inserted.

    b. If there is either no total or an incorrect total, the new total is inserted followed by two pound signs (##) as a marker to the operator.

7. When finished, the system displays the message "Totals Complete".

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3.2 EXAMPLE:

Before Addition			Total	After Addition			Total
⌐16.7	⌐25.2	⌐4.8	◀	⌐16.7	⌐25.2	⌐4.8	⌐46.70## ◀
⌐3.00	⌐4.00	⌐5.00	⌐11.00◀	⌐3.00	⌐4.00	⌐5.00	⌐12.00## ◀
⌐25	⌐25	⌐25	◀	⌐25	⌐25	⌐25	⌐75.00## ◀

8. Notice that in this example the system has entered two pound signs
    (##) in the Total column. These are flags to the operator that
    these totals have been computed by the system. In this and all
    other applications, touch GL, x to delete the pound signs.

CHAPTER 4   ADDITION AND GRAND TOTAL OF ROWS

Adds rows of numbers, determining a total for each row. Inserts each answer immediately following the last Decimal Tab on that row. Inserts the Grand Total immediately following the last Decimal Tab on the final row of Decimal Tabs.

    a. Maximum number of columns - 13 (12 columns to be added, 1 column to insert the answer).

    b. Minimum number of columns - 3.

    c. Maximum number of rows - no maximum.

4.1   OPERATION

1. Retrieve from Archive, then Attach Glossary 9918.

2. While in edit of the document with rows to be added, touch GL. The system prompts, "Which Entry?".

3. Touch b. The system prompts "Position Cursor".

4. Position the cursor to before the start of the rows to be totaled.

5. Touch EXECUTE.

6. The system performs several intermediate steps, then adds each row and inserts the total immediately following the last Decimal Tab on that line.

    a. If there is already a correct total there, the new total is not inserted.

    b. If there is either no total or an incorrect total, the new total is inserted followed by two pound signs (##) as a marker to the operator.

7. The Grand Total is inserted immediately following the last Decimal Tab on the final row of Decimal Tabs.

8. When finished, the system displays the message "Totals Complete".

4.2 EXAMPLE:

Before Addition			Total		After Addition			Total	
⌐16.7	⌐25.2	⌐4.8		◄	⌐16.7	⌐25.2	⌐4.8	⌐46.70##	◄
⌐3.00	⌐4.00	⌐5.00	⌐12.00	◄	⌐3.00	⌐4.00	⌐5.00	⌐12.00	◄
⌐25	⌐25	⌐25		◄	⌐25	⌐25	⌐25	⌐75.00##	◄
. . . .				◄	. . . .				◄
⌐	⌐	⌐	⌐	◄	⌐	⌐	⌐	⌐133.70##	◄

CHAPTER 5 ADDITION OF COLUMNS

Adds columns of numbers, determining a total for each column. Inserts each answer immediately following a Decimal Tab on the final row of Decimal Tabs.

    a. Maximum number of columns - 13.

    b. Minimum number of columns - no minimum.

    c. Maximum number of rows - no maximum.

5.1 OPERATION

1. Retrieve from Archive, then Attach Glossary 9919.

2. While in Edit of the document with columns to be added, touch GL. The system prompts, "Which Entry?".

3. Touch c. The system prompts "Position Cursor".

4. Position the cursor to before the start of the columns to be totaled.

5. Touch EXECUTE.

6. The system performs several intermediate steps, then adds each column and inserts the total on the final row of Decimal Tabs.

    a. If there is already a correct total there, the new total is not inserted.

    b. If there is either no total or an incorrect total, the new total is inserted followed by two pound signs (##) as a marker to the operator.

7. When finished, the system displays the message "Totals Complete".

5.2   EXAMPLE:

Before Addition				After Addition		
∟16.7	∟25.2	∟4.8 ◄		∟16.7	∟25.2	∟4.8 ◄
∟3.00	∟4.00	∟5.00◄		∟3.00	∟4.00	∟5.00 ◄
∟25	∟25	∟25 ◄		∟25	∟25	∟25 ◄
...................◄				........................◄		
∟44.70	∟54.30	∟ ◄		∟44.70	∟54.20##	∟34.80## ◄

CHAPTER 6 ADDITION AND GRAND TOTAL OF ROWS AND COLUMNS

Adds rows of numbers, determining a total for each row. Inserts each answer immediately following the last Decimal Tab on that row. Also adds columns of numbers, determining a total for each column. Inserts each answer (plus the Grand Total) on the final row of Decimal Tabs.

   a. Maximum number of columns - 13 (12 columns to be added, 1 column to insert the answer).

   b. Minimum number of columns - 3.

   c. Maximum number of rows - no maximum.

6.1 OPERATION

   1. Retrieve from Archive, then Attach Glossary 9920.

   2. While in Edit of the document with rows and columns to be added, touch GL. The system prompts, "Which Entry?".

   3. Touch d. The system prompts "Position Cursor".

   4. Position the cursor to before the start of the columns to be totaled.

   5. Touch EXECUTE.

   6. The system performs several intermediate steps, then adds each row and inserts the total immediately following the last Decimal Tab on that line. Each column total is inserted on the final row of Decimal Tabs. For both row and column totals,

      a. If there is already a correct total there, the new total is not inserted.

      b. If there is either no total or an incorrect total, the new total is inserted followed by two pound signs (##) as a marker to the operator.

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7. The Grand Total is inserted immediately following the last Decimal Tab on the final row of Decimal Tabs.

8. When finished, the system displays the message "Totals Complete".

6.2 <u>EXAMPLE</u>:

<u>Before Addition</u>			<u>Total</u>	<u>After Addition</u>			<u>Total</u>
∟16.7	∟25.2	∟4.8	∟ ◀	∟16.7	∟25.2	∟4.8	∟46.70## ◀
∟3.00	∟4.00	∟5.00	∟12.00◀	∟3.00	∟4.00	∟5.00	∟12.00 ◀
∟25	∟25	∟25	∟ ◀	∟25	∟25	∟25	∟75.00## ◀
....................................◀				....................................◀			
∟44.70	∟54.30	∟	∟ ◀	∟44.70	∟54.20##	∟34.80##∟ 133.70##	◀

CHAPTER 7 ADDITION AND GRAND TOTAL OF COLUMNS

Adds columns of numbers, determining a total for each column. Inserts each answer immediately following a Decimal Tab on the final row of Decimal Tabs. Inserts the Grand Total immediately following the last Decimal Tab on that row.

a. Maximum number of columns - 13 (12 columns to be added, 1 column to insert the answer).

b. Minimum number of columns - 3.

c. Maximum number of rows - no maximum.

7.1 OPERATION

1. Retrieve from Archive, then Attach Glossary 9921.

2. While in Edit of the document with columns to be added, touch GL. The system prompts, "Which Entry?".

3. Touch e. The system prompts "Position Cursor".

4. Position the cursor to before the start of the rows to be totaled.

5. Touch EXECUTE.

6. The system performs several intermediate steps, then adds each column and inserts the total on the final row of Decimal Tabs.

    a. If there is already a correct total there, the new total is not inserted.

    b. If there is either no total or an incorrect total, the new total is inserted followed by two pound signs (##) as a marker to the operator.

7. The Grand Total is then inserted immediately following the last Decimal Tab on the final row of Decimal Tabs.

8. When finished, the system displays the message "Totals Complete".

7.2   __EXAMPLE__:

Before Addition				After Addition			
⌐16.7	⌐25.2	⌐4.8	◄	⌐16.7	⌐25.2	⌐4.8	◄
⌐3.00	⌐4.00	⌐5.00	◄	⌐3.00	⌐4.00	⌐5.00	◄
⌐25	⌐25	⌐25	◄	⌐25	⌐25	⌐25	◄
. . . . ◄				. . . .◄			
⌐44.70	⌐54.20	⌐	⌐ ◄	⌐44.70	⌐54.20	⌐34.80##	⌐133.70## ◄

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CHAPTER 8 PERFORM FUNCTIONS ON ROWS

Performs any of the five mathematical functions allowable in Mathpak (addition, subtraction, multiplication, division, set equal to) on rows of numbers. Inserts answers anywhere desired on the row. Allows complex functions (e.g., a+b*c/d) to be performed.

NOTE:

It is essential that the user be familiar with the Wang Mathematics Support Package User Manual 700-4671 before performing this application.

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a. Maximum number of columns - 13.

b. Minimum number of columns - 3.

c. Maximum number of rows - no maximum.

d. The user should make it a practice to set each register used to the value desired (usually zero) before this application is performed. Otherwise, there may be errors, since this application does not clear any old values from the registers. If the first mathematical function performed on a register is Set Equal To (for example, a=), the register does not have to be set to zero before this function is performed.

e. If desired, the user can set one or more registers as "constants" to be used later in the calculations. For example, to set register f at the constant value 25, enter Mathpak by touching COMMAND, +. Then type f=25 and touch EXECUTE.

8.1   OPERATION

This function must be performed in three steps. First, the user Recalls Glossary, f, and enters the functions to be performed. Then, the user Recalls Glossary, g, to translate this into a Glossary Entry. Finally, the user Recalls Glossary, h, to perform the mathematics. Once Glossary f and g have been run (one-time) to set up Glossary h, Glossary h can be run as often as desired for the same application.

8.1.1 Enter The Mathematical Functions

1. Retrieve from Archive, then Attach Glossary 9922.

2. From the System Start-up Menu, touch GL. The system prompts "Which Entry?".

3. Touch f. The system performs several intermediate steps, then prompts "Document:".

4. Enter the Document I.D. of the document with the columns and rows to have math performed. The system displays that document, then prompts "Position Cursor".

5. Position the cursor to before the first Decimal Tab in the Table.

6. Touch EXECUTE. The system performs several intermediate steps, then prompts "N,D,=,+,-,*,/".

7. The operator has a choice of seven alternatives:

    a. No Function. Touch N, then touch EXECUTE. This indicates that the column is to be ignored. The system prompts "Register a-q". Touch EXECUTE again. It is critical to the operation of this function that the user not enter a register after entering N. The cursor moves to the next column.

    b. Set Equal To. Touch =, then touch EXECUTE. The system prompts "Register a-q". Type a register (a-q), then touch EXECUTE. This sets that register equal to the value of the number in that column. The cursor moves to the next column.

    c. Addition. Touch +, then touch EXECUTE. The system prompts "Register a-q". Type a register (a-q), then touch EXECUTE. This adds the value of the number in that column to the register named. The cursor moves to the next column.

    d. Subtraction. Touch -, then touch EXECUTE. The system prompts "Register a-q". Type a register (a-q), then touch EXECUTE. This subtracts the value of the number in that column from the register named. The cursor moves to the next column.

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e. Multiplication. Touch *, then touch EXECUTE. The system prompts "Register a-q". Type a register (a-q), then touch EXECUTE. This multiplies the value of the number in that column times the register named. The cursor moves to the next column.

f. Division. Touch /, then touch EXECUTE. The system prompts "Register a-q". Type a register (a-q), then touch EXECUTE. This divides the value of the register named by the value of the number in that column. The cursor moves to the next column.

g. Display. Touch D, then touch EXECUTE. The system prompts "Register a-q". Type a register (a-q), then touch EXECUTE. This displays (inserts) the value of the register into the column. The cursor moves to the next column.

NOTES:

Using D, complex functions can be calculated. Type D, touch EXECUTE, type the function desired, touch EXECUTE. For example, D,EXECUTE,a+b,EXECUTE, adds register b to register a, and displays the new contents of register a. D,EXECUTE,a+b*c/d-e,EXECUTE, performs in order, the following operations on register a: adds register b to it, multiplies the new value of register a by register c, divides it by register d, subtracts register e from it, then displays (inserts) register a in the document. The value of register a changes with each step. The value of the other registers does not change.

A maximum of five (5) mathematical functions can be performed when using D. For example, Da+b is one function; Da+b+c-d*e/f is five functions. If more than five functions are attempted, the system displays the message "Illegal Entry" and stops. To recover, the user must re-run Glossary, f.

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8. When all the mathematical commands have been entered, the system prompts "Gl g to continue". The system is no longer in Glossary.

NOTE:

At this time, any entry in Step 7 above may be edited. The system-generated control character @ must not be deleted.

8.1.2 <u>Build the Glossary Entry</u>

9. Touch GL, g. The system builds, Verifies, and Attaches a Glossary Entry to perform the desired functions. When finished, the system returns to the System Start-up Menu.

```
+--------------------------------------------------+
|                      NOTE:                       |
|                                                  |
|  Glossary  h  has  now  been  created  for  this  particular |
|  application.  It can be run as many times as desired, with  |
|  no further operator action necessary to recreate it.        |
+--------------------------------------------------+
```

8.1.3 Perform the Functions on the Rows

10. After the Glossary Entry has been built in Steps 1-9 above, enter Edit of the document with the rows to have mathematics performed.

11. Touch GL. The system prompts "Which Entry?".

12. Touch h. The system prompts "Position Cursor".

13. Position the cursor to before the start of the rows.

14. Touch EXECUTE.

15. The system performs the desired functions on the rows, inserting the totals where previously indicated.

16. When complete, the system prompts "Exec, Gl c col tot".

    a. Touch EXECUTE. Pause briefly while the system performs several intermediate steps, then touch GL, c to add the columns as in Section 3 previously. Or,

    b. Touch CANCEL to exit from this function.

NOTE:

If using GL, c, make sure that Glossary document 9919 is resident on the System. If not, there will be an error.

8.2 EXAMPLE

Suppose the following sample document has been created, with Tabs at 15, 25, 35, 50, and 65, and a right margin at 75.

	HOURS	RATE	GROSS	OLD YTD	NEW YTD	
Sally	∟40.0	∟4.25	∟	∟7,265.40	∟	◀
Judy	∟35.0	∟4.50	∟	∟6,988.75	∟	◀
Jill	∟32.0	∟3.90	∟	∟4,520.80	∟	◀
Diane	∟40.0	∟4.80	∟	∟8,500.00	∟	◀
. . . .						◀
	∟	∟	∟	∟	∟	◀

You now wish to perform the following calculations:

1) Multiply HOURS times RATE, giving GROSS.

2) Add GROSS to OLD YTD, giving NEW YTD.

The following steps are used to set up and run the application to perform these calculations:

A. Enter the Mathematical Functions (See 8.1.1)

    1. Attach Glossary 9922.

    2. Touch GL, f.

    3. Enter the Document ID of the above sample document.

    4. Position the cursor and touch EXECUTE.

    5. Touch =,EXECUTE,a,EXECUTE.   (Register a = HOURS COLUMN)

    6. Touch =,EXECUTE,b,EXECUTE.   (Register b = RATE COLUMN)

    7. Touch D,EXECUTE,a*b,EXECUTE.   (Multiply register a times register b, or GROSS = HOURS x RATE)

    8. Touch +,EXECUTE,a,EXECUTE.   (Add register a and OLD YTD, or GROSS + OLD YTD)

    9. Touch D,EXECUTE,a,EXECUTE.   (Display NEW YTD)

B. Build the Glossary Entry (See 8.1.2)

    1. Touch GL, g.

C. Perform the Functions on the Rows (See 8.1.3)

    1. Enter edit of the sample document.

    2. Touch GL, h.

    3. Position the cursor and touch EXECUTE. The calculations will be performed for each row in the table.

    4. Touch EXECUTE (pause briefly), GL, c, position the cursor, EXECUTE to add the columns.

    5. Touch GL, x to delete the pound signs.

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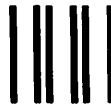
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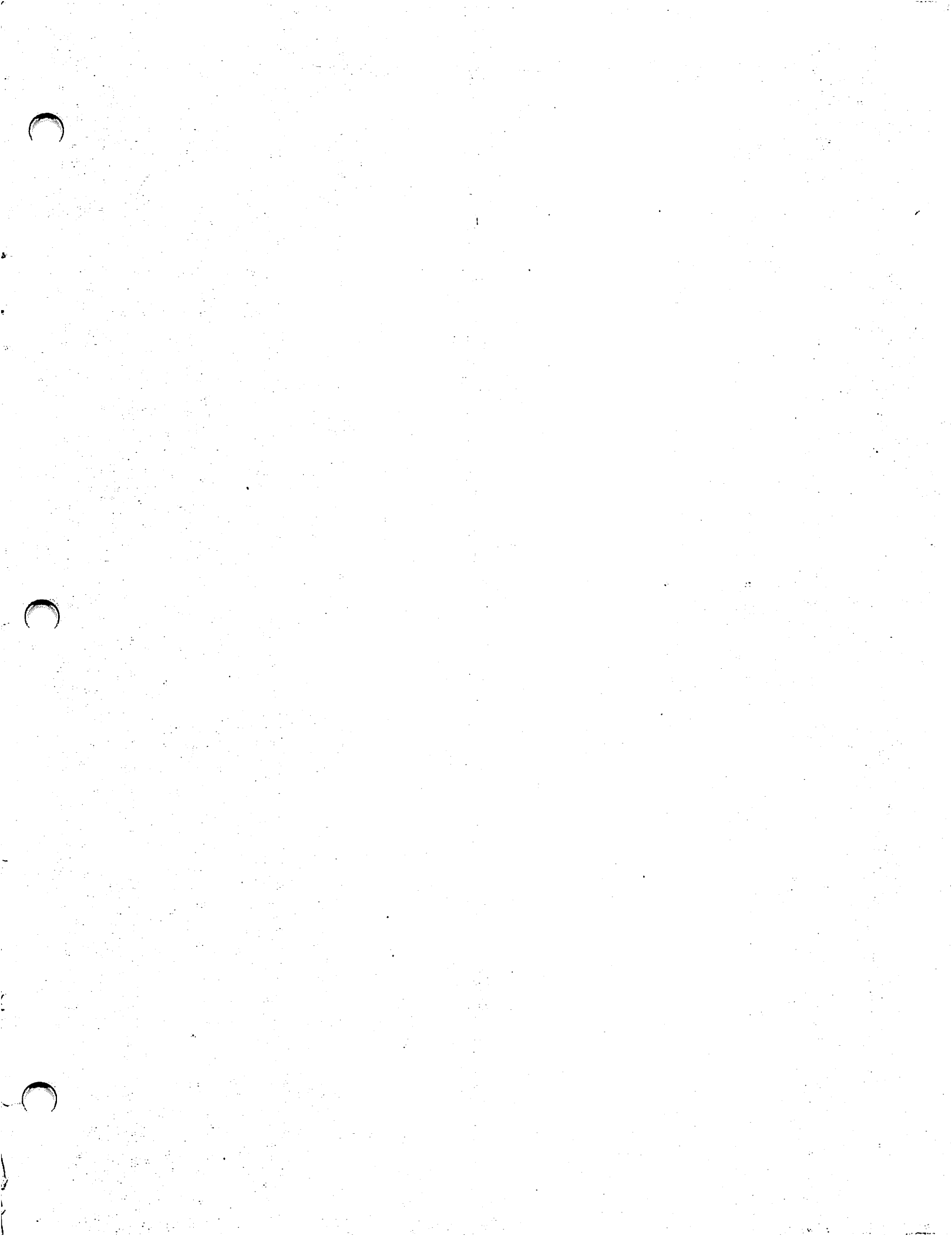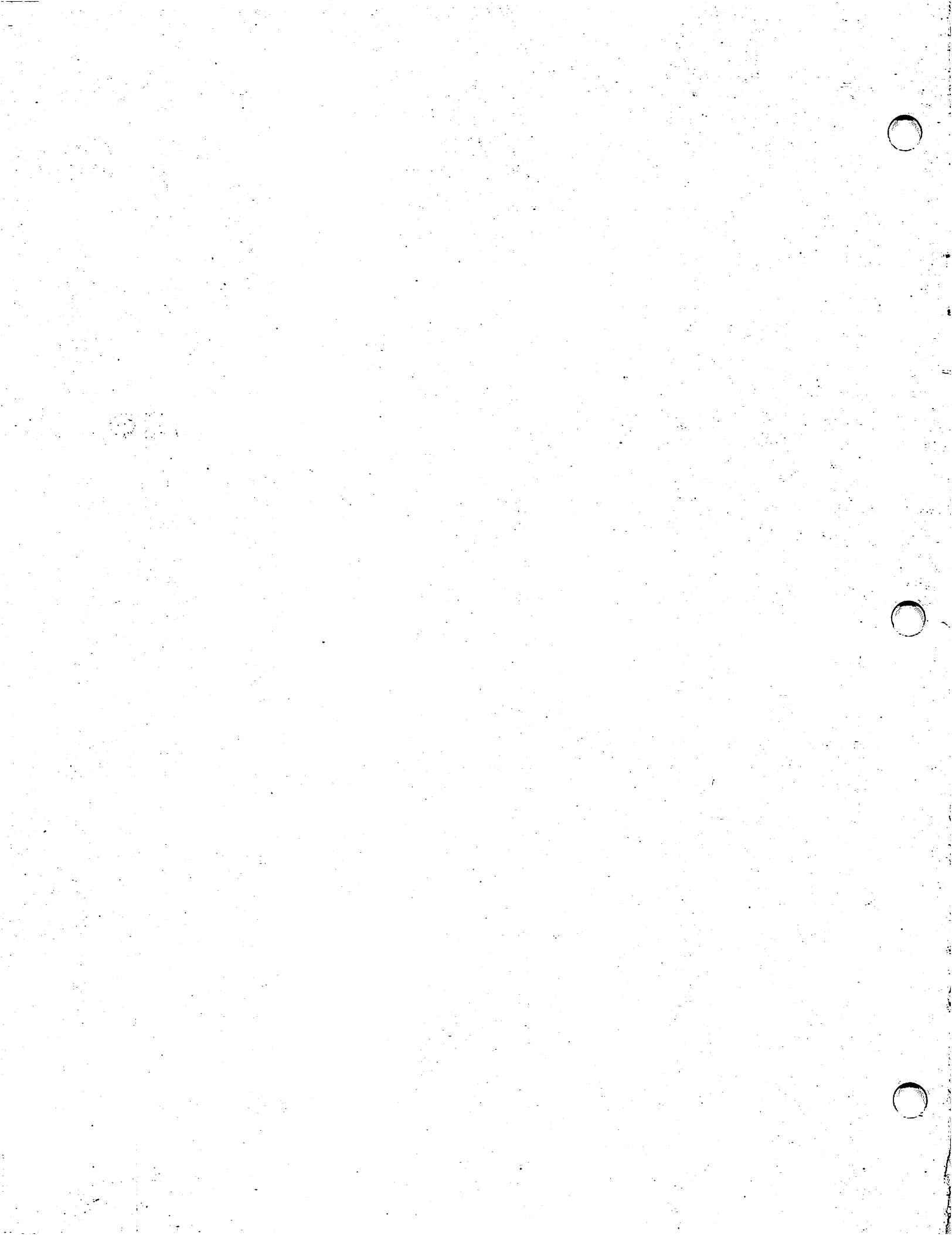
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