

U: \_\_\_\_\_

O: \_\_\_\_\_ I: \_\_\_\_\_ [ ] CONCEPTUALIZATION

E: \_\_\_\_\_ S: \_\_\_\_\_ [ ] PROCEDURALIZATION  
[ ] IMPLEMENTATION  
[ ] INSTRUCTIONS

U: THE CONTRADICTION IN EACH FORM OF MOTION OF MATTER

100/CONSTRUCTION: hierrarchical design  
\_\_\_\_\_  
\_\_\_\_\_

300/PRODUCTION: model pgms., pgm. structure, line# conventions  
\_\_\_\_\_  
\_\_\_\_\_

400/ADMINISTRATION: I/O's and file handling  
\_\_\_\_\_  
\_\_\_\_\_

500/MATHEMATICS: functions and modules, STD error routines  
\_\_\_\_\_  
\_\_\_\_\_

700/IDEO. : where is one's level of knowledge in relation to the actual knowledge of the objective process and base on this K. : does one's relation to production serve to push forward the process or retard. it.  
QUESTIONS TO BE ANSWERED: WHAT IS THE PERSONS I.F. AND MOT?  
\_\_\_\_\_  
\_\_\_\_\_

800/ORGANIZATION: variable conventions and STD'S .  
\_\_\_\_\_  
\_\_\_\_\_

900/THEORY: the need for required reading and research; evident of summarized practice; the need for specific theoretical K. of the particularity of this process.  
\_\_\_\_\_  
\_\_\_\_\_

000/ECONOMIC[CONSTANT CAPITAL]: univ. utilities =full screen processor (FSP) and menu processor, index modules  
\_\_\_\_\_  
\_\_\_\_\_

PROCESS: \_\_\_\_\_

O: THE CONTRADICTION IN EACH OF ITS PROCESSES OF DEVELOPMENT

- [1.0] \_\_\_\_\_
- [2.0] \_\_\_\_\_
- [3.0] \_\_\_\_\_
- [4.0] \_\_\_\_\_
- [5.0] \_\_\_\_\_
- [6.0] \_\_\_\_\_
- [7.0] \_\_\_\_\_
- [8.0] \_\_\_\_\_
- [9.0] \_\_\_\_\_
- [10.0] \_\_\_\_\_
- [11.0] \_\_\_\_\_
- [12.0] \_\_\_\_\_
- [13.0] \_\_\_\_\_

E: TWO ASPECTS OF THE CONTRADICTION IN EACH PROCESS

"To disclose the mutual penetration, the identity of opposites in any process is the central problem of our theory of knowledge, of materialistic dialectic."

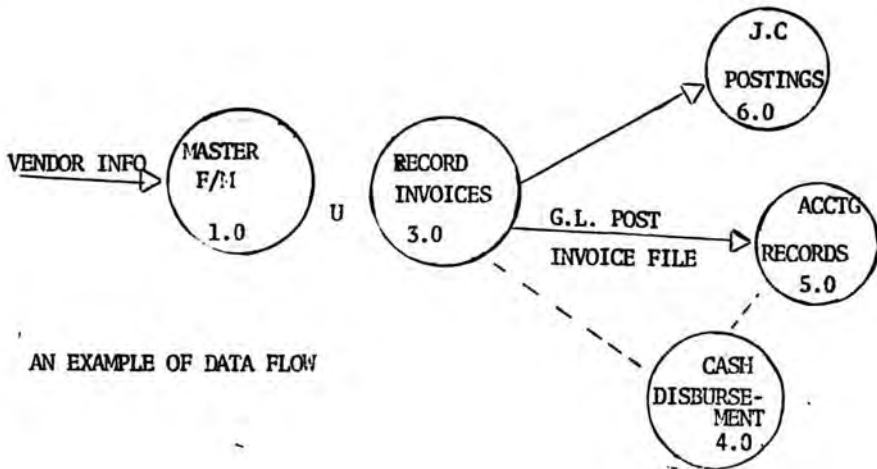
Disclosing the basic contradictions and reveal their development and conflict \*\*\*\*\*

BASIC CONTRADICTIONS:

concrete forms it assumes in its interdependence and in its contradiction with its opposite.

- + ( ) - + ( ) - [ ] \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- + ( ) - + ( ) - [ ] \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- + ( ) - + ( ) - [ ] \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- + ( ) - + ( ) - [ ] \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- + ( ) - + ( ) - [ ] \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- + ( ) - + ( ) - [ ] \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

P.C. : \_\_\_\_\_

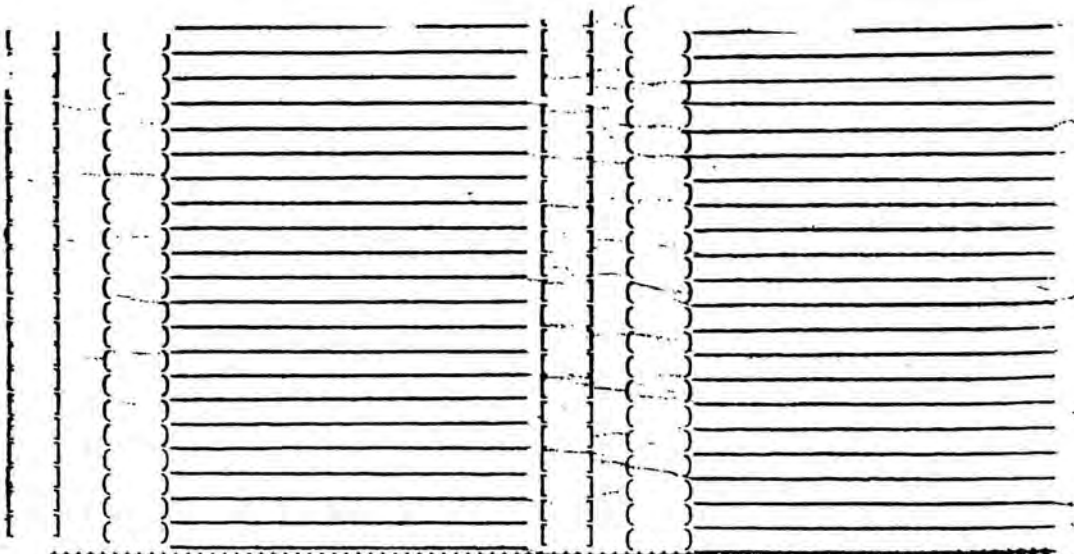
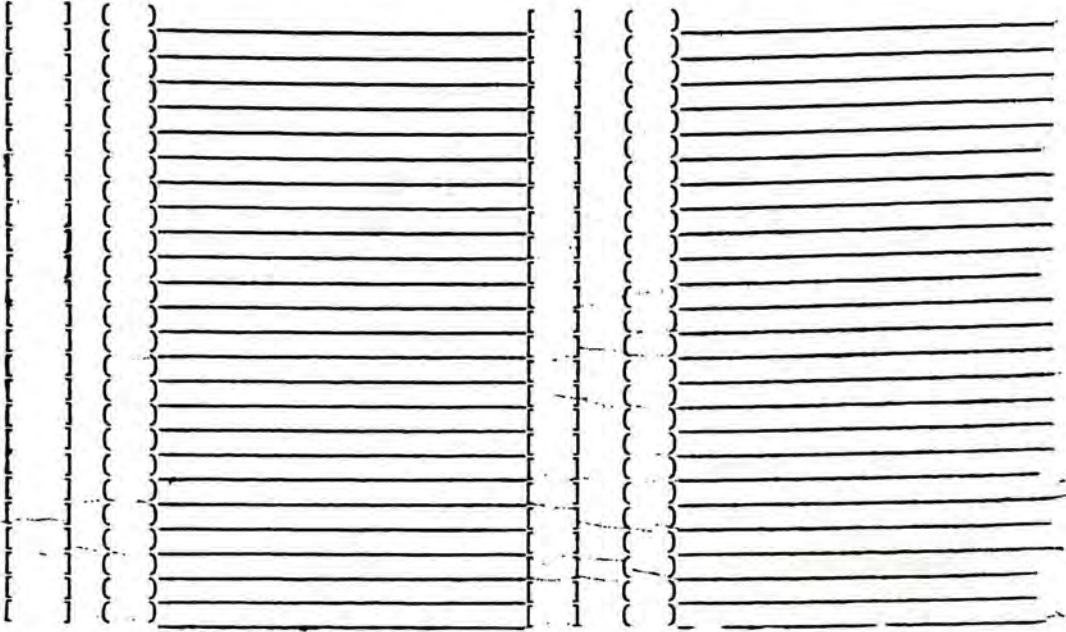


AN EXAMPLE OF DATA FLOW

" THE M.D.M. DEMANDS THAT WE MUST ALWAYS CONSIDER THINGS, NOT IN ISOLATION, BUT IN THEIR INTERCONNECTION WITH OTHER THINGS, IN RELATIONS TO THE ACTUAL CONDITIONS AND CIRCUMSTANCES OF EACH CASE: AND THAT WE MUST CONSIDER THINGS IN THEIR CHANGE AND MOVEMENT, THEIR COMING INTO BEING AND GOING OUT OF BEING, ALWAYS TAKING PARTICULARLY INTO ACCOUNT WHAT IS NEW, WHAT IS RISING AND DEVELOPING."

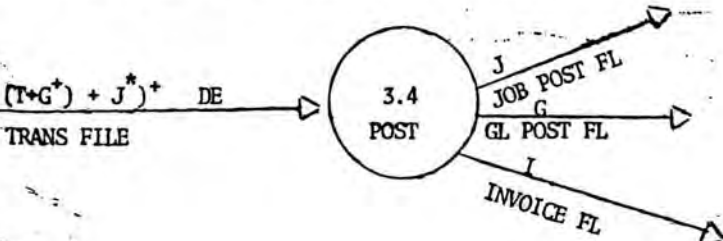
WHAT CONCRETE METHODS ARE EMPLOYED IN THE STRUGGLE WITH ITS OPPOSITE, WHEN THE TWO ARE BOTH INTERDEPENDENT AND IN CONTRADICTION.

n intersection or interconnection ; disjoint ≠ n



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AN EXAMPLE OF DATA FLOW WHICH DEFINES THE MOVEMENT OF A PARTICULAR PROCESS



THE PROCESS MODEL EXAMPLE

PRESENT STATE	INPUT	ACTIONS	OUTPUTS	NEXT STATE
S ∅ 3.41	operator start	open trans fl open JC fl open GL fl open inv fl sort	work file	S <sub>1</sub> (3.42)
S <sub>1</sub> 3.42	T DE	write inv fl add to count close all fls	inv fl	S <sub>2</sub> (3.43) S <sub>4</sub> (3.4)
S <sub>2</sub> 3.43	G DE	write GL post fl add to totals close all fls	GL post	S <sub>3</sub> S <sub>4</sub> (3.41)
S <sub>3</sub> 3.44	JC T DE	write JC fl  close all fls	JC fl	S <sub>1</sub> (3.42) S <sub>1</sub> (3.42) S <sub>4</sub> (3.45)
S <sub>4</sub> (3.45)	DE	get counts & totals	print totals count	S <sub>∅</sub> (3.41)

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PRESENT STATE	INPUT	ACTIONS	OUTPUTS	NEXT STATE

1:

# THE CONTRADICTION AT EACH STAGE OF A PROCESS

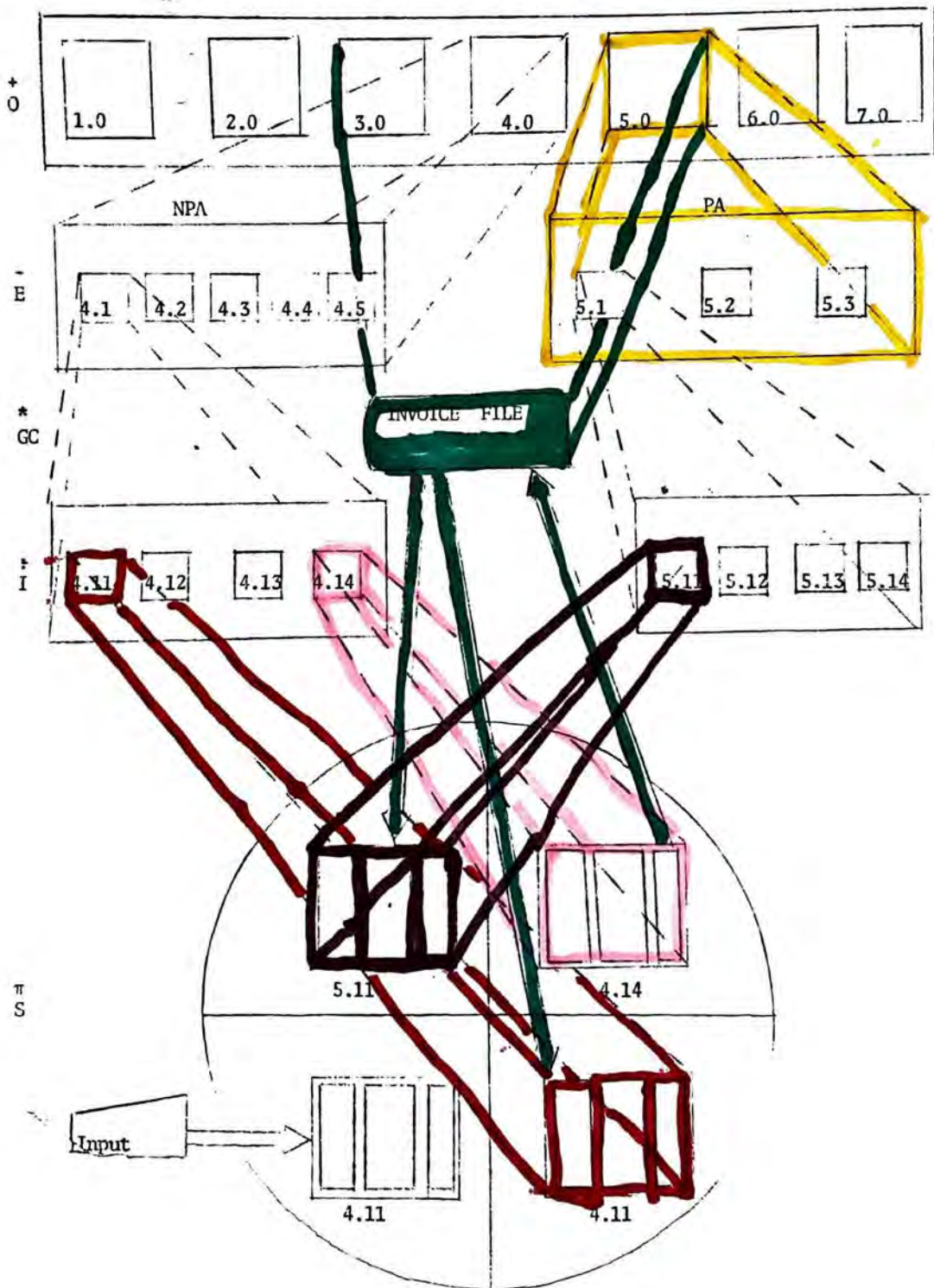
"DEVELOPMENT MUST BE UNDERSTOOD, THEREFORE, NOT AS A SIMPLE PROCESS OF GROWTH BUT AS A PROCESS WHICH PASSES FROM QUANTITATIVE CHANGES TO OPEN, FUNDAMENTAL QUALITATIVE CHANGES".

THIS STAGE SHOWS HOW THE DEVELOPMENT OF A CONTRADICTION PREPARES ITS RESOLUTION AND DETERMINES THE FORM OF ITS RESOLUTION

I/C OF INTERPERMEATION:

[ what concrete methods are employed after the interdependence breaks down]

A 3 DIMENSIONAL VIEW OF THE BREAK DOWN OF INTERDEPENDENCE



THE TWO ASPECTS OF THE CONTRADICTION AT EACH STAGE

"IN THE PROCESS OF DEVELOPMENT THE NEW GROWS STRONG AND OVERPOWERS THE OLD, AND THIS LEADS TO THE FORWARD MOVEMENT OF DEVELOPMENT, IN WHICH EACH STAGE IS AN ADVANCE TO SOMETHING NEW, NOT A FALLING BACK TO SOME STAGE ALREADY PASSED".

I/C OF INTERDEPENDENT: \_\_\_\_\_

[THE RELATIONAL CONTRADICTON BETWEEN THE OLD AND NEW, PAST AND FUTURE: BETWEEN THAT IS, DEVELOPMENTAL AND OPERATIONAL STAGES.]

