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## INTEROFFICE MEMORANDUM

date: 11/29/82 from: Don Hooper dept: L.S.E.G. loc: MR1-2/E85 ext: 231-6454

to: Jupiter Project Leaders

subject: Jupiter APA TASKS

#### 1.0 SCOPE

This document will estimate the tasks and resources required to design, build and debug the Jupiter APA protptype.

#### 2.0 GENERAL

The Jupiter APA will occupy a 10 slot backpanel in a single width cabinet previously designed by the LSG Technology Group. It is anticipated that 9 modules will be designed, with ample spares on each. The APA accelerates instructions which perform poorly in the EBOX, in particular the floating-point instruction set.

#### 3.0 TASKS

APA tasks will be alphabetic designators and numeric skill levels as follows:

# CATAGORIES (1ST ALPHABETIC CHARACTER)

S = SIMULATION

L = MGMT & TECHNICAL LEADERSHIP

D = DESIGN

R = RAMP

B = BUILD

T = TEST/DEBUG

# SKILL LEVELS

8-10 = MANAGER, CONSULTING ENGINEER

7-9 = PRINCIPAL ENGINEER

6-8 = SENIOR ENGINEER

5-7 = DESIGN ENGINEER

4-6 = JR DESIGN ENGINEER, ENGINEERING CANDIDATE

3-5 = PROJECT TECHNICIAN

2-4 = TECHNICIAN

1-3 = ASSEMBLER

### SIMULATION TASKS

ACM INCAN				
SA-8	-	ARCHITECTURE SIMULATION	6 Ø	man-days
SI-10	- Parline - Parline	FUNCTIONAL INTERFACE SIMULATION	3Ø	man-days
S <b>F-1</b> ∅	-	FUNCTIONAL ALGORITHM SIMULATION	69	man-days
SP-7	-	PERFORMANCE SIMULATION	3Ø	man-days
SR-8	-	FUNCTIONAL REG XFER SIMULATION	80	man-days
SD-8	****	DIAGNOSTIC SIMULATION	5Ø	man-days
SG-5	-	GATE-LEVEL SIMULATION, VERIFICATION	180	man-days
ST-5	neiter Sapre	TIMING VERIFICATION	<b>1</b> 8Ø	man-days

# LEADERSHIP TASKS LM-10 = ENGINEERING PROJECT MANAGEMENT. LS-7 = TASK AND RESOURCE SCHEDULING LT-9 = TECHNICAL DIRECTION DESIGN TASKS DS-8 = DESIGN SPECIFICATION DP-9 = DESIGN PARTITIONING DB-7 = BLOCK DIAGRAMS DM-6 = MODULE DESIGN DL-6 = PHYSICAL PLACEMENT DF-5 = MECHANICAL AND FRAME DESIGN DV-6 = POWER DESIGN DC-6 = COOLING DESIGNRAMP TASKS RS-8 = ERROR DET, ISOLATION, RECOVERY SPEC RI-9 = HARDWARE INITIALIZATION SPEC RD-7 = 11-BASED DIAGNOSTICS RB-8 = DEBUG BOOTSTRAPS AND AIDS RR-7 = RAMP ISSUE REVIEW RT-5 = TECHNOLOGY REVIEW BUILD TASKS BB-4 = BACKPANEL ROUTE BR-3 = MULTIWIRE ROUTE BV-3 = MULTIWIRE VENDOR PREP BP-2 = PARTS ORDERBB-2 = BUILD & STUFFBF-3 = BUILD FRAME AND POWER TEST TASKS TR-3 = MODULE REWORK TB-7 = LOGIC DESIGN DEBUG TE-4 = ECO IMPLEMENTATION

TD-6 = DESIGN ECO

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