

Request For Proposal

RFP:IBM-7030 (Project Stretch)	Proposal Due date : 20 Nov 1958	Comapny Name :IBM
Project Overview : Project Stretch is a supercomputer mainly for scientific applications.Project is directed more specifically toward achieving, on very large mathematical computing problems, the highest performance possible within certain limits of time and resources.The purpose of setting so ambitious a, goal is to stimulate innovation in all aspects of computer design.		
Project Goals : <ul style="list-style-type: none">• To make a supercomputer 100 time faster than IBM-704• To make a effective and better design of a computer architecture• To introduce new technology like parallel pipline,parallel binary arithmetics and page caching		
Project Objectives: 1.Performance : An over-all performance leve1 of 100 times that of the fastest machines then in existence. 2.Reliability : Solid-state components promised t'he much higher reliability needed for satisfactory operation of a necessarily complex machine. 3.Checking : Extensive automatic checking facilities were intended to detect any errors that occurred and to locate faults within narrow limits. 4.High-speed Arithmetic : A high-speed parallel arithmetic unit is to execute floating-point additions in 0.8 microsecond and multiplications in 1.4 microseconds. 6.Memory : The main memory is to have a cycle time of only 2 microseconds. The capacity was to be 8,192 (later raised to 16,384) words per unit. 7.Input-Output Exchange A unit resembling somewhat a telephone exchange was to provide simultaneous operation of all kinds of input-output, storage, and data transmission devices.		
Current Roadblock <ul style="list-style-type: none">• New transistors, new cores, new logical features, and new manufacturing techniques are needing.• New Architecture for computer design• Parallel pipelining ,Paging and memory units are need to be improve		
Evaluation Matrix : The responders must meets following requiements: <ul style="list-style-type: none">• The education, experience, knowledge, skills, and qualifications required for project.• Past experience with similar domain.		
Time To Build : Project must be done within 3 year of time		
Bugdet: \$ 6700000		
Project Incharge: Gene Amdahl	Place of Contact : Poughkeepsie, N.Y.	