

GRACE HOPPER

Was born December 9th, 1906

Born in New York City

Grace Hopper was an American computer scientist and United States Navy rear admiral



GRACE HOPPER

At the age of seven, she dismantled her alarm clock to figure out how it worked, but was unable to reassemble it.

“This intellectual curiosity would later play an integral part in earning Hopper a place among the ranks of the most famous women inventors.”



GRACE HOPPER

1928 | Graduated from Vassar College

1934 | Grace went to Yale University and obtained her Ph.D. in mathematics

She later became a mathematics professor at Vassar college

Hopper attempted to enlist in the Navy during World War II but was rejected because she was 34 years old.

She ended up joining the Navy Reserves



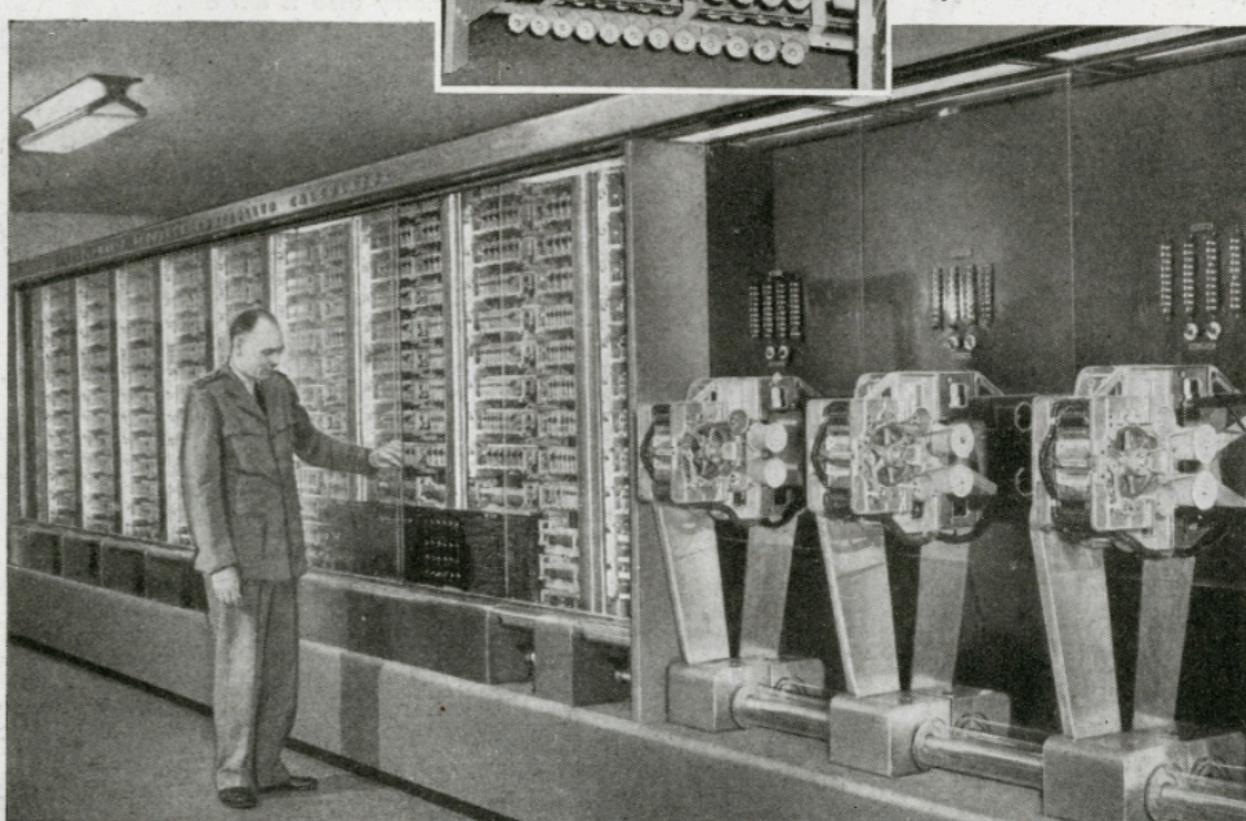
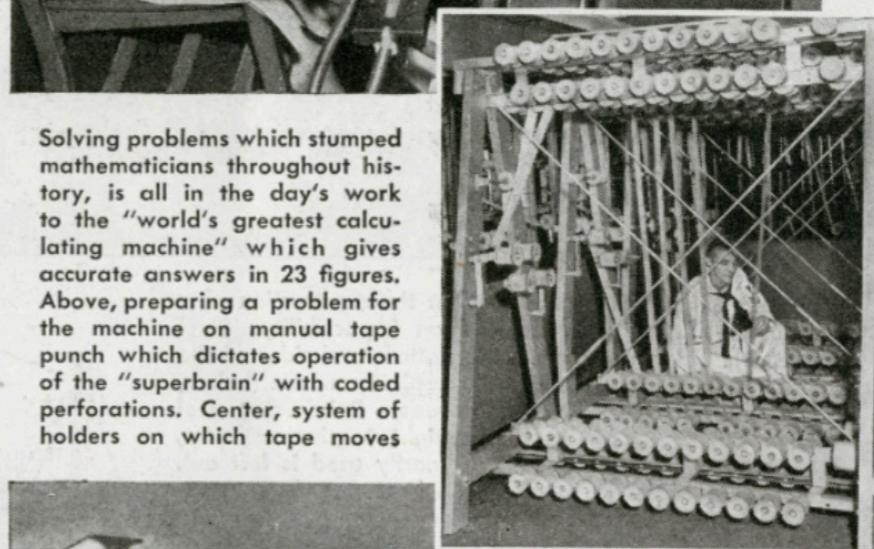
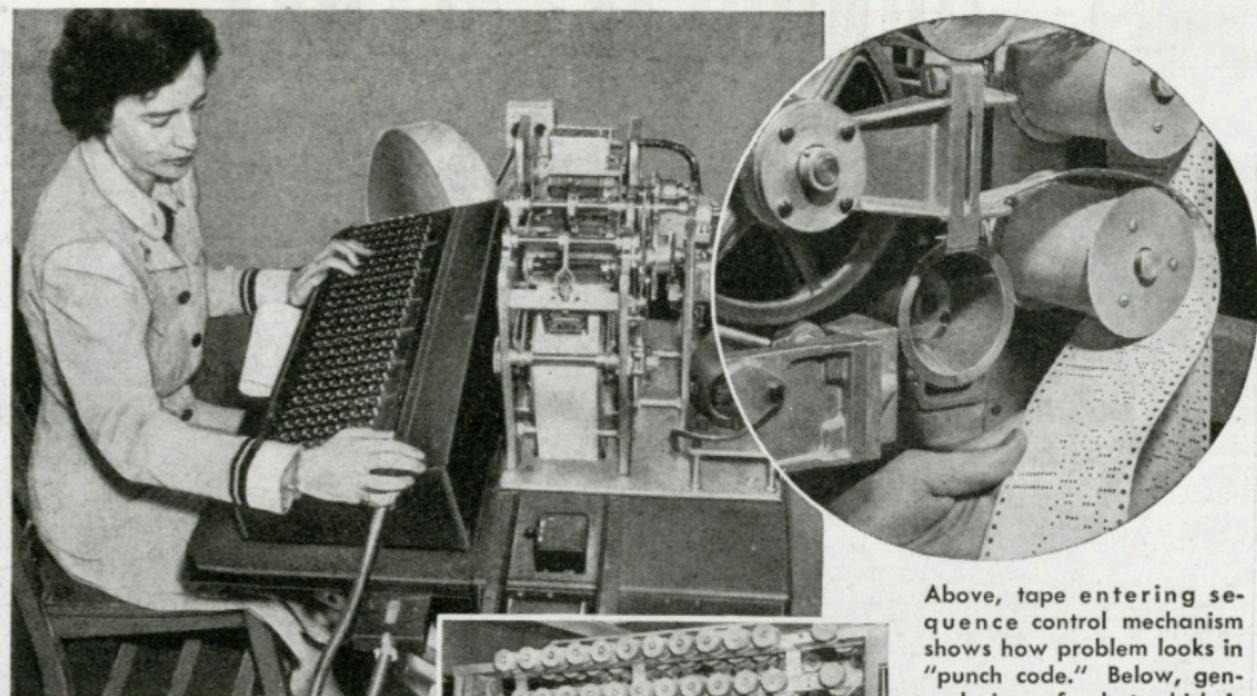
GRACE HOPPER

1944 | Began her computing career when she worked on the Harvard Mark 1 team lead by Howard H. Aiken

Howard H. Aiken designed Mark 1 in 1937

He wanted to solve advanced mathematical physics problems encountered in his research

Robot Works Problems Never Before Solved



Above, tape entering sequence control mechanism shows how problem looks in "punch code." Below, general view of robot which is 51 feet long, 8 feet high. It has 500 miles of wire, 3,000,000 connections, tiers of 72 adding machines. Invented by Cmdr. H. H. Aiken, U.S.N.R., it was built by International Business Machines and presented to Harvard University for use by the Navy. After the war it will solve problems of star movements and algebraic equations hitherto unsolved

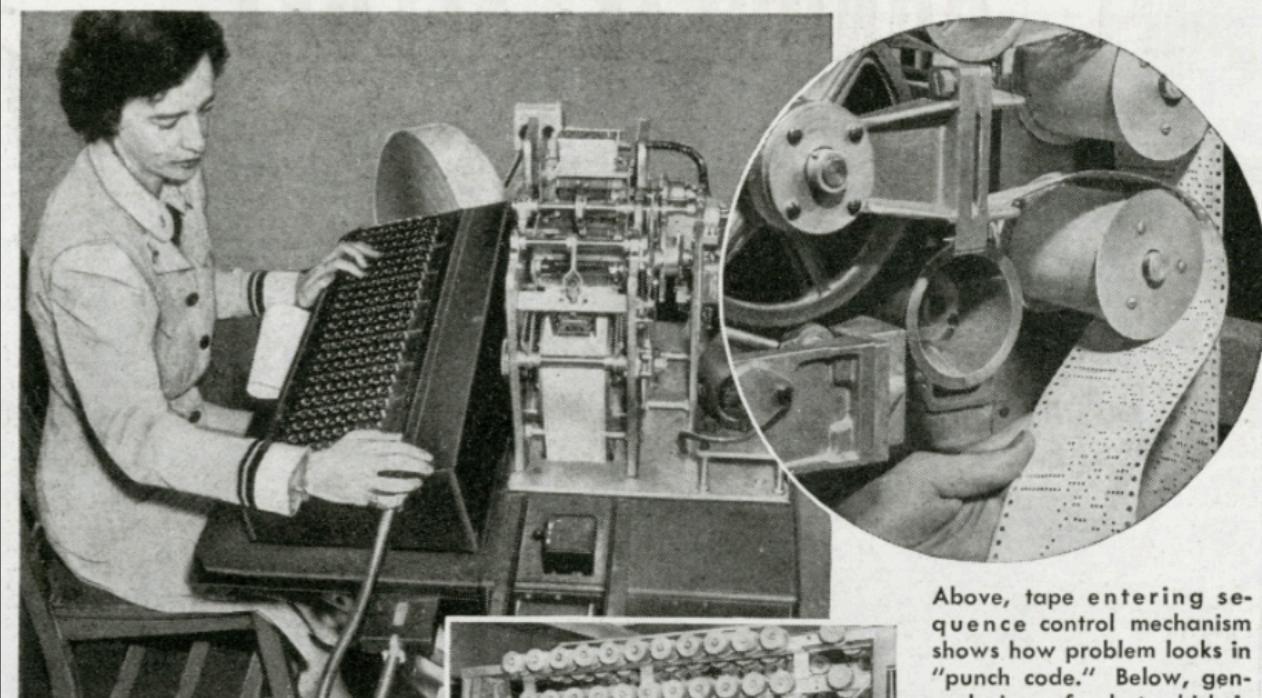
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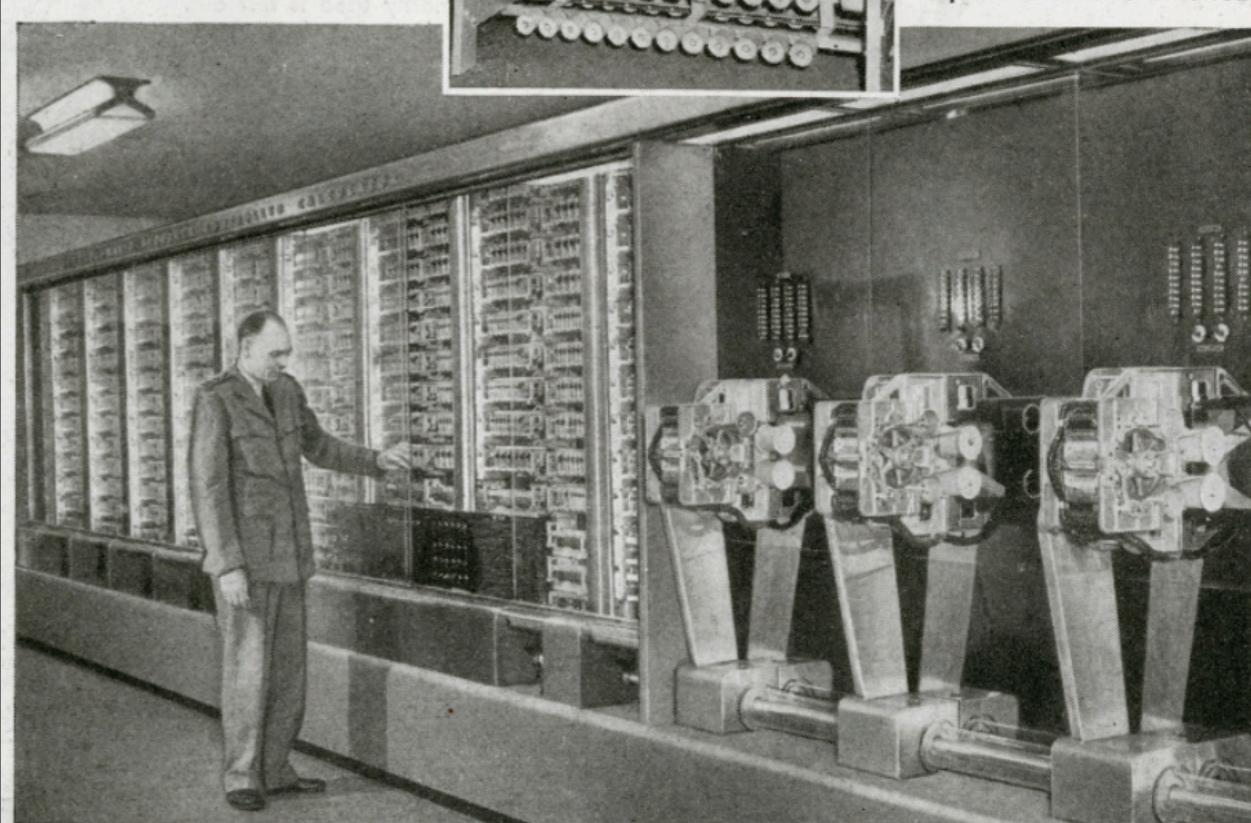
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Up until 1945, "computers" was a job description for someone who performed mathematical operations for large projects



Solving problems which stumped mathematicians throughout history, is all in the day's work to the "world's greatest calculating machine" which gives accurate answers in 23 figures. Above, preparing a problem for the machine on manual tape punch which dictates operation of the "superbrain" with coded perforations. Center, system of holders on which tape moves



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Mainly developed the compiler

Believed that a programming language based on English was possible

1952 | Finished the program

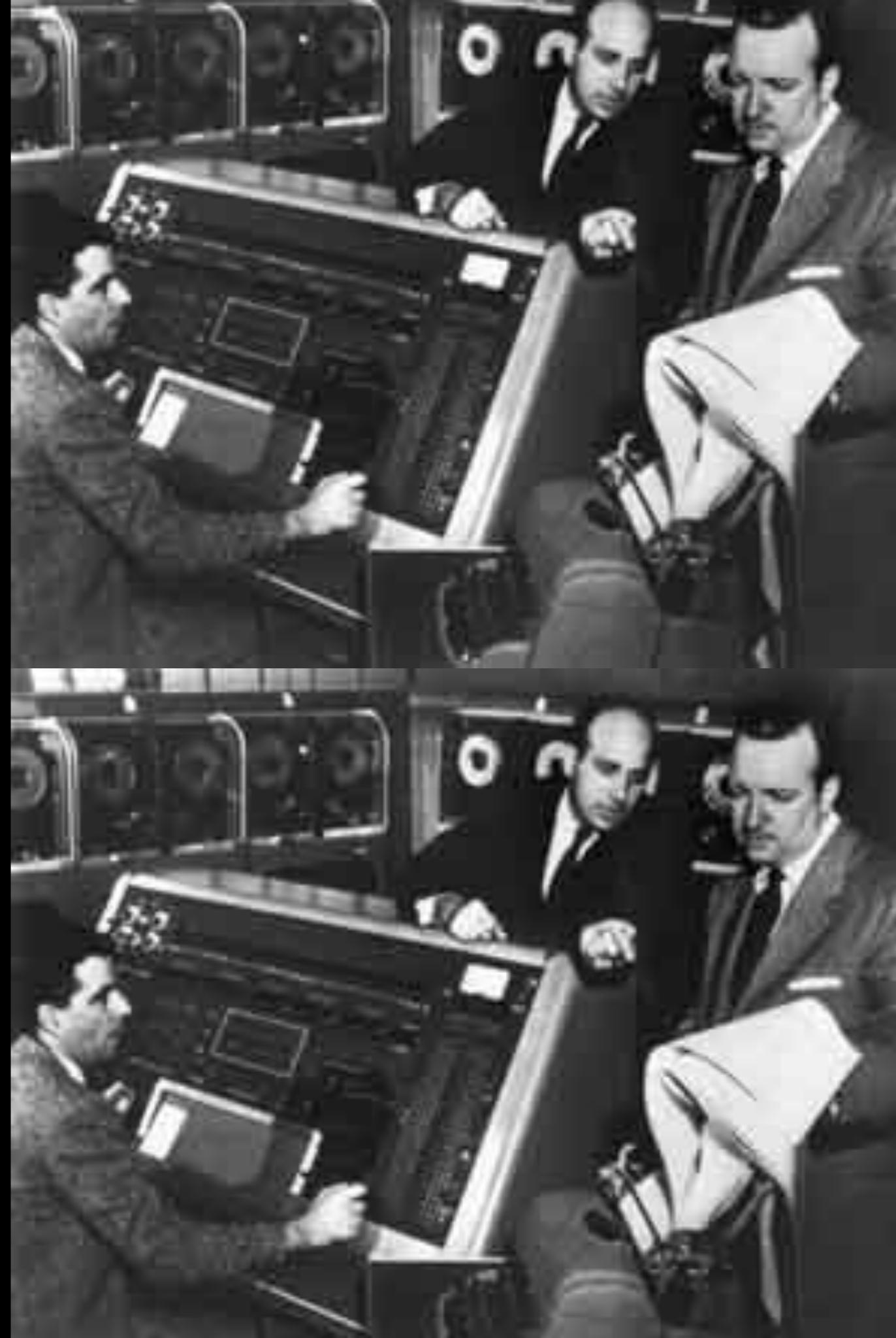


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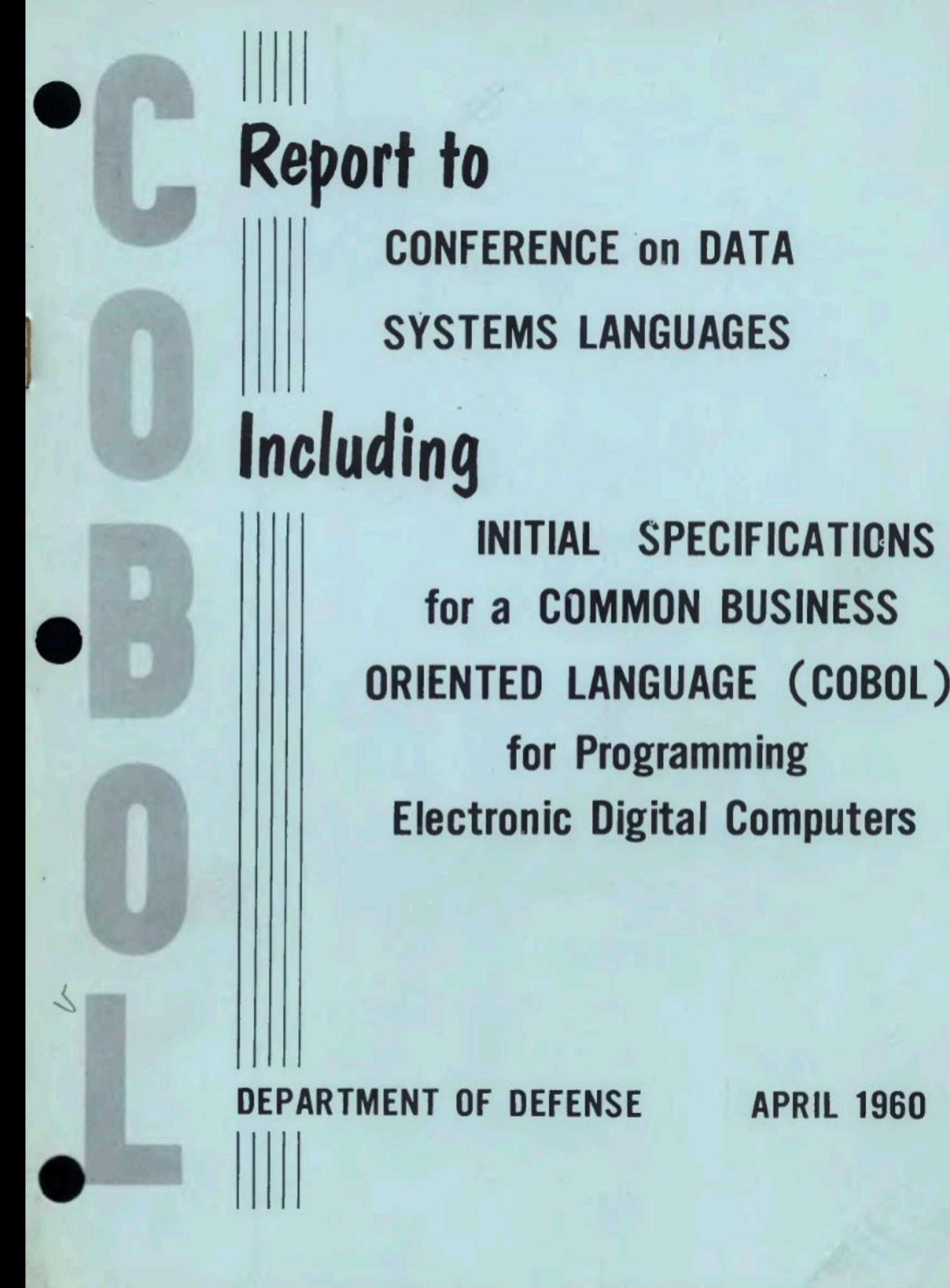
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Digital Equipment Corporation(DEC) was a major company in the computer industry in the 1950s to the 1990s



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1991 | National Medal of Technology

Granted by the President of the United States for American inventors and innovators who have made a significant contribution to the development of new and important technology.

Highest honor the US can confer to a US citizen for achievements related to technological progress



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40 honorary degrees from universities across the world

A college at Yale University was renamed in her honor | Grace Hopper College



GRACE HOPPER

Referred to as Amazing Grace, due to her accomplishments and her naval rank

There have been many things named after Grace Hopper, to honor her

USS Hopper

Cray XE6



GRACE HOPPER



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<http://sites.harvard.edu/~chsi/markone/about.html>

https://en.wikipedia.org/wiki/Grace_Hopper

<https://ghc.anitab.org/about/>

<https://ghc.anitab.org/about-grace-hopper/>

<https://www.britannica.com/biography/Grace-Hopper>

<http://www.women-inventors.com/Dr-Grace-Murray-Hopper.asp>