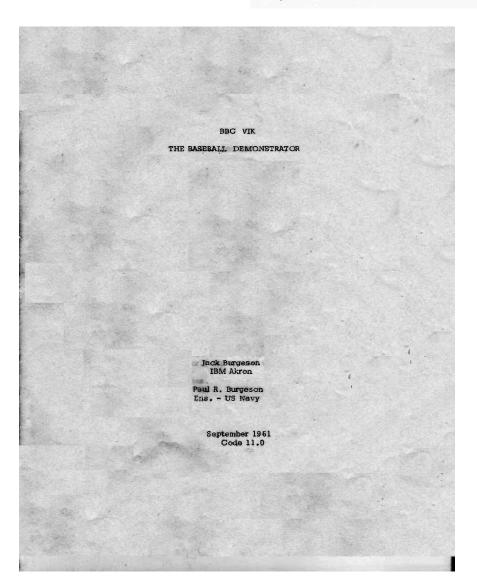
This is a photocopy of the documentation of BBC, a baseball simulator that runs on the IBM 1620 computer. John W. Burgeson, an IBM Applied Science Rep in Akron, Ohio, developed it in 1960-61. The earliest successful run of this program was, according to notes, on 1/3/61. John submitted it to the IBM 1620 program library where various versions of it existed as late as 1967. This paper is dated September 1961. In the fall of 1961, Rege Cordic, then a KDKA Pittsburgh radio executive, produced a short running radio show based on the simulator's output.

John's brother, Paul R. Burgeson, served as a "debugger" on the project and offered many design ideas. He was the one who urged the development of the program and without his able assistance, it would not have ever been completed.

John W. Burgeson



ABSTRACT PAGE

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BBC V1K

THE BASEBALL DEMONSTRATOR

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Jack Burgeson IBM Akron

Paul R. Burgeson Ens. U.S. Navy

<u>Subject Class</u>: 11.0 ** <u>Direct Inquiries To</u>: Jack Burgeson, IBM Akron

<u>Purpose</u>: To demonstrate the capabilities of the 1620 as a simulator by "playing" a game of baseball.

Storage: All of storage is used.

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Language: SPS with patches.

BBC VIK PROGRAM DESCRIPTION

This demonstration program will match operator vs machine in picking teams from a master roster (in 1620 memory) of 50 all-star players. Operator picks visiting team, the machine then selects (randomly) the home team. A complete game is then "played." Running time is from 7 to 11 minutes per game. The batting average and handedness of the batter is taken into account in playing the game. All pitchers are considered equally effective.

Two separate random number generators built into the program effectively prevent the same game - or even close variations - from recurring. These generators are altered each time the program is loaded by the operator typing the date and time of day into memory, the program selecting certain digits from this type in.

Because of the high averages of the all-stars on the roster (each player is represented by his best year average-wise), most games are high scoring. However, shoutouts have occurred. In one game Bob Feller pitched a 3 hitter, winning 5-0. He then lost the next game 14-11.

No flow chart or listing is available for this program. An 80-80 listing of the program deck gives a map of memory from 00160 to 19999.

The game has been tested over about 50 games so far, about 10 games since the last patches were made. No apparent errors exist. This version V1K adds base stealing, hit by pitcher, and a more realistic base running situation to the first early tape BBC version.

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Input/Output/Operating

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To run BBC VIK, push reset, put program deck in read hopper - push load. During loading a message will be typed out indicating the version of BBC being used.

After completion of loading the typewriter will carriage return several times and type out "TODAY'S DATE IS" and wait for the operator to type in the date or any other garbage he may want to type in up to 30 characters. Release - start - the message "THE TIME IS" appears. Same procedure, then the typewriter will prepare headings for the visitors roster. Tab stops of approximately 40 and 70 are convenient here. (Margin at 20).

When the typewriter stops, the operator types in the last name of his leadoff batter-release start. If he is one of the 90 - his record will appear. Otherwise the operator will be asked to make another choice. After nine players have been entered, the 1620 program completes the job, selecting the home team and playing the game.

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	At the conclusion of the game, after the game totals are typed, sense switch 3 determines whether the same two teams will play another game (off) or if the operator will enter a new visiting team lineup (on).	3
	Sense Switch 1 on will inhibit some type out of where runners are on the bases.	4
ì	Sense Switch 2 on will force a hit by the current batter.	¥
15	Sense Switch 4 on will force a non-hit by the current batter unless switch 2 is on.	1
	All output is typewritten. There are no stops in the program.	*
	Roster of Players	4
	The roster of 90 players begins in location 13500 and extends to 17999. To print this roster, load the program, put the following routine in Insert and Start:	
	34 <u>0</u> 0000 00102	1
Å	39 13501 <u>0</u> 0100 11 00018 00050	-
	, 49 00000	
	The program begins in 02326 if you wish to enter newsteams; 04490 to play a game with the current teams.	`
	To pre-select <u>both</u> teams, stop the machine <u>after</u> the visiting team has been selected. Insert into locations 01937 - 01981 a series of 9 flagged 5 digit numbers, each number being the location of the player's record in memory	1 1
	that you wish to play on the home team. To determine this location - 'type the roster (as above). Player #1 is location 13500, #2 is 13550, and so on	اہ ہو:
	to 18950 for player #90. When the home team roster is entered in this manner, branch to 04490.	I
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	J. W. Burgeson P. R. Burgeson	\$
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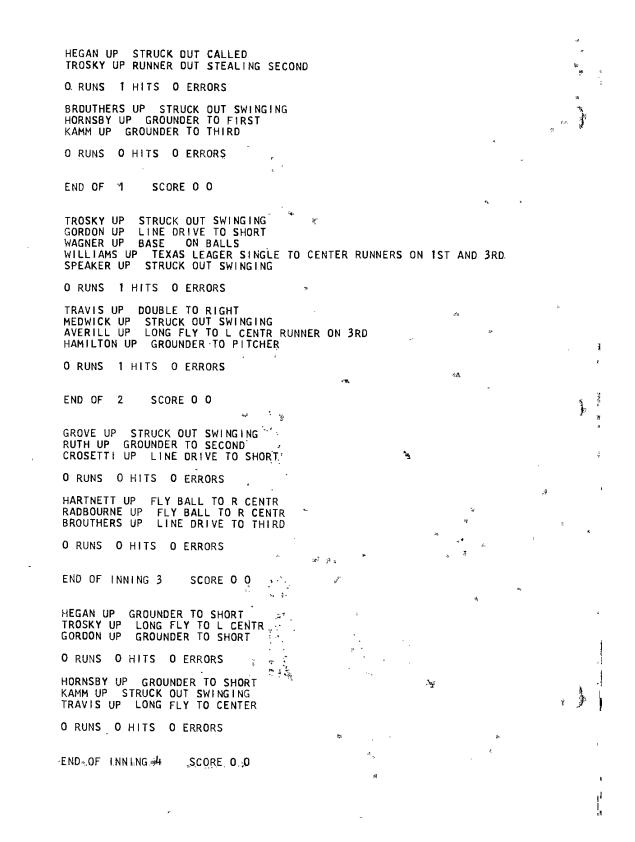
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	VISITORS		do		-
	NAME	TEAM AVG BATS	;		
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	NON-VALID F	PLAYER. RETRY,	ايم : ۱	**	
15. 1000	CROSETTI HEGAN TROSKY GORDON WAGNER WILLIAMS SPEAKER GROVE	SS 1936 YANKS C 1947 CLEVE 1B 1936 CLEVE 2B 1942 YANKS SS 1900 Pittsbu LF 1941 RED SOX CF 1925 CLEVE P 1931 ATHLETI	288 R 249 R 343 L 322 R 381 R 406 L 389 L 250 L		,
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- ∞ WAGNER UP LINE DRIVE TO SHORT WILLIAMS UP SINGLE TO RIGHT SPEAKER UP LINE DRIVE TO FIRST DOUBLE PLAY * : L O RUNS 1 HITS O ERRORS MEDWICK UP SINGLE TO LEFT AVERILL UP FLY BALL TO R CENTR AVERILL UP FLY BALL TO R CENTR HAMILTON UP INF. HIT TO SHORT HARTNETT UP LONG FLY TO CENTER RUNNERS ON 1ST AND 3RD RADBOURNE UP LONG FLY TO R CENTR ł O. RUNS 2 HITS O ERRORS END OF INNING 5 SCORE 0 0 '-۴ GROVE UP DOUBLE TO R CENTR RUTH UP SINGLE OVER FIRST RUNNERS ON 1ST AND 3RD CROSETTI UP GROUNDER TO SHORT BATTER SAFE AT FIRST RUNNER OUT AT HOME RUNNER S ON 1ST AND 2ND HEGAN UP GROUNDER TO THIRD DOUBLE PLAY O RUNS 2 HITS O ERRORS ł, BROUTHERS UP LONG FLY TO LEFT HORNSBY UP GROUNDER TO PITCHER KAMM UP LONG FLY TO R CENTR ŧ O RUNS O HITS O ERRORS 级。 END OF 6 SCORE 0 0 S. 貼 TROSKY UP ERROR AT SECOND GOROON UP GROUNDER TO THIRD RUNNER ON 2ND WAGNER UP FOUL OUT TO RIGHT WILLIAMS UP POP FLY TO FIRST ٠. O RUNS O HITS 1 ERRORS TRAVIS UP STRUCK OUT SWINGING MEDWICK UP STRUCK OUT SWINGING AVERILL UP SINGLE TO L CENTR HAMILTON UP RUNNER STEALS SECOND ÷ FOUL OUT TO SHORT O RUNS 1 HITS O ERRORS END OF 7 SCORE 0 0 SPEAKER UP STRUCK OUT SWINGING ¢. SPEAKER UP SIRUCK OUI SWINGING GROVE UP STRUCK OUT SWINGING RUTH UP SINGLE OVER THIRD CROSETTI UP SINGLE TO R CENTR RUNNERS ON 1ST AND 2ND HEGAN UP GROUNDER TO SHORT g \mathcal{A} O RUNS 2 HITS O ERRORS 34 HARTNETT UP STRUCK OUT CALLED RADBOURNE UP STRUCK OUT SWINGING BRDUTHERS UP SINGLE OVER 2ND X j.

