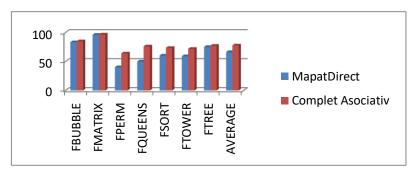
Să se reprezinte sub formă grafică funcțiile utilizând implicit automatul de predicție pe doi biți:

1. Ap = f (tip_arhitectură)

Table = 256, HR = 4, LRU = 0, Arhitectura = MapatDirect, Automat = 2 biti										
	FBUBB	FMATRI	FPERM	FQUEE	FSORT	FTOWE	FTREE	AVERAGE		
	LE	х		NS		R				
Instr. Proc.	41216	21341	54819	38462	12601	37930	32887			
Ар	34271	20518	22023	19245	7600	22396	24644			
Raport	83.15	96.1436	40.174	50.0364	60.31	59.0456	74.94	66.2568		

Table = 256,	HR = 4,	LRU = 2, <i>l</i>	Arhitectu	ıra = Com	pletAsoci	iativ, Aut	omat = 2	2 biti
	FBUBB	FMATRI	FPERM	FQUEE	FSORT	FTOWE	FTREE	AVERAGE
	LE	х		NS		R		
Instr. Proc.	41216	21341	54819	38462	2601	37930	32887	
Ар	34966	20613	35050	29257	9251	27269	25385	
Raport	84.836	96.589	63.938	76.067	73.410	71.893	77.190	77.704

	FBUBB	FMATRI	FPERM	FQUEE	FSORT	FTOWE	FTREE	AVERAGE
	LE	X		NS		R		
MapatDirec t	83.149	96.143	40.174	50.036	60.31	59.045	74.94	66.2567
Complet	84.836	96.588	63.938	76.067	73.41	71.893	77.19	77.7031
Asociativ								



2. Analizați influența gradului de localizare al saltului asupra acurateți de predicție: Ap = f (i) unde i = dim. PClow.

Table = 2	256, HR =	1, LRU =	0, Arhite	ctura = N	lapatDire	ct, Auto	mat = 2 b	iti
	FBUBBL	FMATRI	FPERM	FQUEE	FSORT FTOWE FTREE			AVERAGE
	E	х		NS		R		
Instr.	41216	21341	54819	38462	12601	37930	32887	
Proc.								
Ар	34965	20613	35048	28508	9157	27265	25401	
Raport	84.83	96.59	63.93	74.12	72.67	71.88	77.24	77.32

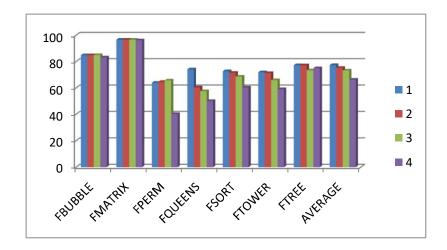
Table = 2	256, HR =	2, LRU =	0, Arhite	ctura = N	lapatDire	ct, Auto	mat = 2 b	iti
	FBUBBL	FMATRI	FPERM	FQUEE	FSORT	FTOWE	FTREE	AVERAGE
	E	х		NS		R		
Instr.	41216	21341	54819	38462	12601	37930	32887	
Proc.								
Ар	34978	20613	35388	23224	9001	27037	25393	
Raport	84.865	96.588	64.554	60.381	71.430	71.281	77.212	75.187

Table = 2	Table = 256, HR = 3, LRU = 0, Arhitectura = MapatDirect, Automat = 2 biti										
	FBUBBL	FMATRI	FPERM	FQUEE	FSORT	FTOWE	FTREE	AVERAGE			
	E	X		NS		R					
Instr. Proc.	41216	21341	54819	38462	12601	37930	32887				
Ар	34992	20613	35994	22118	8642	24977	24120				
Raport	84.899	96.588	65.659	57.506	68.581	65.850	73.342	73.203			

Table = 256, HR = 4, LRU = 0, Arhitectura = MapatDirect, Automat = 2 biti										
	FBUBBL FMATRI FPERM FQUEE FSORT FTOWE FTREE AVERAGE									
	E X NS R									

Instr. Proc.	41216	21341	54819	38462	12601	37930	32887	
Ар	34271	20518	22023	19245	7600	22396	24644	
Raport	83.149	96.143	40.174	50.036	60.312	59.045	74.935	66.256

	FBUBBL E	FMATRI X	FPERM	FQUEE NS	FSORT	FTOWE R	FTREE	AVERAGE
1	84.833	96.588	63.934	74.119	72.668	71.882	77.237	77.323
2	84.865	96.588	64.554	60.381	71.430	71.281	77.212	75.187
3	84.899	96.588	65.659	57.506	68.581	65.850	73.342	73.203
4	83.149	96.143	40.174	50.036	60.312	59.045	74.935	66.256

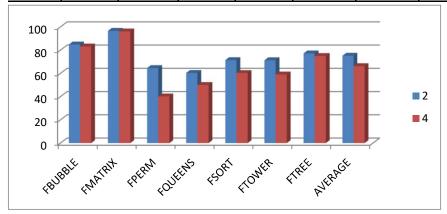


3. Stabiliţi influenţa contextului în care se situează saltul în program: Ap = f (HRglobal).

Table = 2	Table = 256, HR = 2, LRU = 0, Arhitectura = MapatDirect, Automat = 2 biti										
	FBUBBLE	FMATRIX	FPERM	FQUEENS	FSORT	FTOWER	FTREE	AVERAGE			
Instr. Proc.	41216.00	21341.00	54819.00	38462.00	12601.00	37930.00	32887.00				
Ар	34978.00	20613.00	35388.00	23224.00	9001.00	27037.00	25393.00	<u>.</u>			
Raport	84.87	96.59	64.55	60.38	71.43	71.28	77.21	75.19			

	FBUBBLE	FMATRIX	FPERM	FQUEENS	FSORT	FTOWER	FTREE	AVERAGE
Instr. Proc.	41216.00	21341.00	54819.00	38462.00	12601.00	37930.00	32887.00	
Ap	34271.00	20518.00	22023.00	19245.00	7600.00	22396.00	24644.00	-
Raport	83.15	96.14	40.17	50.04	60.31	59.05	74.94	66.26

	FBUBBLE	FMATRIX	FPERM	FQUEENS	FSORT	FTOWER	FTREE	AVERAGE
2	84.87	96.59	64.55	60.38	71.43	71.28	77.21	75.19
4	83.15	96.14	40.17	50.04	60.31	59.05	74.94	66.26



4. Reprezentaţi Ap = f (nr_biţi_automat_predicţie) considerând parametrii optimi (PClow, HRglobal) rezultaţi în urma simulării efectuate la 1), 2) şi 3).

Table =	Table = 256, LRU = 2, Arhitectura = CompletAsociativ, Automat = 1 bit							
	FBUBBL	FMATRI	FPERM	FQUEEN	FSORT	FTOWE	FTREE	AVERAGE
	E	х		s		R		
Instr. Proc.	41216	21341	54819	38462	12601	37930	32887	
Ар	33798	19915	33209	27659	8966	27437	24864	
Raport	82.0021	93.3180	60.5794	71.9125	71.1531	72.3359	75.6043	75.2722

Table = 256, LRU = 2, Arhitectura = CompletAsociativ, Automat = 2 biti								
	FBUBBL	FMATRI	FPERM	FQUEEN	FSORT	FTOWE	FTREE	AVERAGE
	E	х		S		R		
Instr	41216	21341	54819	38462	12601	37930	32887	
Instr. Proc.	41210	21341	54819	38402	12001	37930	32887	
Ар	34966	20613	35050	29257	9251	27269	25385	
Raport	84.836	96.5887	63.9377	76.0673	73.4148	71.893	######	77.7037

	nr=1	nr=2		
FBUBBLE	82.0021	84.836		
FMATRIX	93.318	96.5887		
FPERM	60.5794	63.9377		
FQUEENS	71.9125	76.0673		
FSORT	71.1531	73.4148		
FTOWER	72.3359	71.893		
FTREE	75.6043	77.1886		
AVERAGE	75.2722	77.7037		

