





































System Characteristics	
Size of memory	16 bytes
Frame Size	4 bytes per frame
Memory Management Structure	Inverted Page Table
Replacement Policy	LRU, Global Replacement
Virtual Page Size	4 bytes per page
Logical Addressing Space Size	32 bytes
Backing Store Size	12 blocks
Backing Store Block Size	4 bytes per block

Process ID	0	1	2
Process Size (Bytes)	12	14	13
Pages allocated	3	4	4
Backing Store Map (Page → Block)			
Page 0	BS 0	BS 3	BS 7
Page 1	BS 1	BS 4	BS 8
Page 2	BS 2	BS 5	BS 9
Page 3		BS 6	BS 10

System Snapshot																	
Main	Memo	ory															
Address	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1
Content	s O	Т	0	Ν	G	F	U	Ν	-	-	-	-	А	D	*	F	
Block Content	0 s THR	I RE A	AD*F	2 UN		3 RATE	4 *M	ON	5 OTC		6 IC	7 DEN		8 ND*P	9 AG		10 G
Content	s THR	E /	AD*F	UN				ON				-					
Content	s THR	age	AD*F	UN	I	RATE	*M		отс	DN	IC	DEN	1A	ND*P	AG		
Content	s THR	age	AD*F	UN	I		*M		отс	DN		DEN	1A		AG		
Content Inver	s THR	age	Tabl	UN	I Va	RATE	*M		отс	DN	IC	DEN	1A	ND*P	AG		
Content Invert	s THR	age	Tabl	UN	Va T	RATE	*M0		отс	DN	IC	DEN r) M F	1A	ND*P	AG		

																		Pr	ocess ID		0
																		Pr	ocess Size	(Bytes)	12
																		Pa	ges allocat	ed	3
																		(P:	cking Stor age → Blo ge 0		BS
	ain M		mor	<u> </u>					-	1.0				1					ge 1		BS
Addr Cont		0	1 T	2	3 N	4 G	5 F	6 U	7 N	8	9	10	11	12	13	14	15		BS		
Chan		0	1	0	N	G	F	U	N	- U	- N	-	- A	Α	D	Ť	F	Page 2			BS.
	ckir	-	Sto	e														_	ge 3		
Bloc		0		1		2		3	4			5			7		8		9	10	
Con		TI	IRE	AD	*F	UN		RATE	3 1	MOI	N	OTO	N I	C	DE	MA	ND	*P	AGIN	G	
Cha	nge																				
		ed	Pag	e T	abl		alid	Bit	Re	f Wor	d (Le		older)	M	odifie	d Bit		1		
		/P #	2 1 T			2			- (/	F								
Fran	ne N		-	1								-			T						
Fran 0	ne N		-	2		1			1						Т						
Inv Fran 0 1 2	ne 1		2	1	0			Т	1			4			T -		Т	_			

																		Proc	ess ID		1
																		Proc	ess Size	(Bytes)	14
																		Page	es alloca	ted	4
																			king Sto ge → Blo		
Ma	ain	Ме	mor	v														Pag			BS 3
Addr		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Page	21		BS 4
Cont		0	Т	0	N	G	F	U	Ν	-	-	-	-	Α	D	*	F	Pag	e 2		BS 5
Than	ge					*	М	0	Ν	U	Ν	-	А					Page	2 3		BS 6
Ba	cki	ng	Sto	re																	
3100	k	0		1		2		3		4		5		6	7		8		9	10	
Con	tents	Т	HRE	AI	D*F	UN	Ň	RAT	E	*MO	N	OTC	N	IC	D	EMA	N	O*₽	AGIN	G	
Tha	nge																			GFUN	i.
'n۱		ted	Pag	je T	abl		/alid	Bit	Pe	fWor	-1 (L	ow =	older		M	odifie	d Bit				
0	-	2		1		1		DA	2		u (L.	1	w = older)			F					
i		3	1	2	1	1	r I		1			5			T		F				
2		-	2	-	0	F		Т	-			4			-		Т				
3				0		11			3						F						