

Министерство науки и высшего образования Российской Федерации Федеральное государственное бюджетное образовательное учреждение высшего образования

«Московский государственный технический университет имени Н.Э. Баумана

(национальный исследовательский университет)» (МГТУ им. Н.Э. Баумана)

ФАКУЛЬТЕТ

ИНФОРМАТИКА И СИСТЕМЫ УПРАВЛЕНИЯ

КАФЕДРА_

компьютерные системы и сети (иу6)

НАПРАВЛЕНИЕ ПОДГОТОВКИ 09.03.03 Прикладная информатика

ОТЧЕТ

по лабораторной работе № 1

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Б.К. Аристов

Cogeponamul

1. Blegeme 1.1 yest pasonet

2. Teopermercual chegenus

3. Maxmurlus roumb

3.1 Baganul 1

3.2 Zaganue 2

3.3 Zaganne 3 3.4 Zaganne 4

4. Musomenne

5. Konnpaisure Bonnous

6. Bubog

7. Comusic sumepersugges

Users paramer: uzyrenne nnunusunos nounnolime u memogos ummera geningpanios; nakemiposame u menepunennaismol ucregosame geningpaniopos. Magarmumeronound pasoms -4 raca.

2. Ropembreiser cogenie

Demusphamopan parhaemes Kludupannonnun ysel c n brogar u N baroganu, preospazyronnun kanageni nadop geourunx brogner anna B aumubreni current na burroge, wambernimbyronnun smony madopy.

natopol bagner urmuol. B gennapramope c n bagann u Nbaroganni $N \leq 2^n$. Dennapramop, unevoyan 2^n burogol, razubaenal nomen, unu nomen 2^n burogol, razubaenal nomen, unu ulubulu mil buxoyob - nengunun. Radopan glouruux bxognux unude gennappanopa nomino nomabimo de coombemmbul n-pazpegnere glourne rucia. Em Buxoges gennypamopa oboznarumb F; (j=0,2h-1), mo annibus currous norbunas na mon burroge, y romanoro znarenne ungena j, me none buxoga, nalmo glournouy muy, ouperobannouy natopou bxogness currianol Taxani asparan, gennappamop parmingprobabalm nogument na exo broger glourpour vog mesa u gropminggem avenubnou currian montoro na combenimbyrough buxoge, na biex colmanours buxogax gennyyrango currant reasumbnose. nomeny gennymanies ethelemie nneobjectoba merelle glournow voya & xog "1 uz N". Denniggmonop C n Exogenia a N Barraganin alognarmenne DC n-N, ye DC- decoder.

B 3B14 glumppamoper rpuneneromagne rpedpazobunce rogob onepayan & ynpublishausie curnaw & coombeminbyrowne yenu, ghe upe-Ospazobarus agrecob sneek nausmu & curnau busopa eneek npu zamucu u crimistamin ungraphiasim us nux, que npeadpartenne naugrob (agreeob) камалов в именоканальных коммунаторах электрическому стилирь в сичный выбора кания, дле упривления свеновыми индикаторами.

Oppnessionerpolance genergipamora DC n-N ompegentence madinisen umumoumu.

		7 -	1	Broy	м					Buxog	u	-	1
E	N	A . 1	An-z	An-3	040	An	Ao	Fo	Fa	F ₂		FMZ	THAT.
	0	X	X	×		×	X	0	0	0		0	0
-	1	0	0	0		0	0	1	0	0		0	0
	1	0	0	0		0	1	0	1	0	0.0	0	U
1	1	0	0	0		1	0	0	0	1		0	0
1						4		Þ	•	0			•
T					011	0	•	0	0	٩	***		
T	1	1	1	1		1	0	0	0	0	0.0	1	0
1	1	1	1	1	010	1	1	0	0	0	000	0	

hax creggem us madeins 1, anaummerede omicanne gennaphumopa monero rpegemabino coborgimacineo romicano

apyroxim & CDHP.

Tyle 4: (i=0, n-1) - brogne curnals (repenenne) glungpamopa,

F3 (i=0, N-1) - berogne curnals (oppressus) genuspramopa,

EN - curnal parguments (compositionessus) padomin genuspramopa.

Princ EN-1 glundpramop padominem, kar npeospazobrneus koga "1 uz N",

npu EN-0 na biex birrogna genuspramopa yemanabulbaromes nearenubine

armais negalisatus om mangranousur nadond brogner agreener curass

armais negalisatus om mangranousur nadond brogner agreener curass

Brog EN momen brons unbeparent. Brons cuphe obstrisa paroma genuspra
Brog EN momen brons unbeparent. Brons nomen unem helkaroko

mora unem memo npu EN-0. Derughamop momen unem helkaroko

mora unem memo npu EN-0. Derughamop momen unem knem helkaroko

parperusias en romanomisma.

CAOHIA normalinus glumpramora.

hanger grynwyna & b (1) npegemablelm coloti kommungermy egrunner un unbepuns kommungemen myre c combemenbyrousur namepan. normany sometime grymanim (1) sioneno zamianio 6 buge: Fj=EN. mj= EN VM,

rge m;- voncmunigenma egunuson, M;- koncmunigenma nyus, j-nauep nadopa, na komopau m; palna egunuse, a M; - nyino.

sumayonop momen yourensumber:

- 6 Karlumbe cosambennio germappamopa,

- xax genyumundercop npu nanunui braga parpemenue, - que grapungobanus grynnizut arretper sonnas.

Broger parplemenus cupmam: - que brenennoso brigerenne (composignobanue) mon racome hoxognoso urmara, komopal ne unem nekasulutu, brzhfalunx romanu bxognis umarob;

- que formaineme grynnique genyulmenrencepationes;

- gra rapanizabanul parpagnoinu gernigramona, m.l. ybernrenna.

Napaulnipus gennipumopa

h anobrem napaulmpan gennggramiga omnocem: - rouneumbo biogob, impegalelmod purphymounes upeninaryeuro

grommaro voga; - Kolluneumbo buxogob;

- comammence napauloupu, maxue, vax bacquere u boxagnere more a names menus nouverience "O" a "1", nampsmenus gonyimuluses consumerance names than, van, xorgaguighem parkiembience no buxayy kpaz h gp., komopole ompegheroma anatommun napanemparine ionirectione reliented, la comprise on importance; - nompletillune housement Prom (in more Iran);

— динименте параменти: времена задержки распростронения симпаза при выхочении и виключении, карактеризующие обстроненые денирранда

no characty nampolime, gennappinghed pazgenerom ha:

- Junemper ;

a) nupalligatione;

S) compressamone.

Junempuni genepromop empormal & coamblemembre C cumbrion prymagneti (1) n representation cosoti z' romnomemopol une someware presentation (1) n representation cosoti z' romnomemopol une someware empolitical polanical n C (n+1) brogasiu -npu ero nauvenia. Suretimbia ejemioprapolanica n C (n+1) brogasiu -npu ero nauvenia. Suretimbia ejemioprapolanica n C (n+1) brogasiu -npu ero nauvenia. Suretimbia ejemioprapolanica n C (n+1) brogasiu -npu ero nauvenia. Turtembia ejemioprapolanica n 2 broga pasomalm b ioombeminbia c madianja umanimounia.

Tasanza 2.

him	manusa nomummumu germany														
	Brogn				Buxogu										
EN	A	An	Ao	Fo	F4	F	Fz	Fy	Fs	F	F				
0	X	×	×	0	0	0	0	0	0	0	0				
1	0	0	0	1	0	0	0	0	0	0	0				
1	0	0	1	0	1	0	0	0	0	0	0				
1	0	1	0	0	0	1	0	0	0	0	0				
1	0	1	1	0	0	0	1	0	0	0	0				
1	1	0	0	0	0	0	0	1	0	0	0				
1	1	0	1	0	0	0	0	0	1	0	0				
1	1	-1	0	0	0	0	0	0	0	1	0				
1	1	1	1	0	0	0	0	0	0	0	1				

Denniquemop DC 3-8 peasingem sommerings grynniques F=ENm; = EN vM2,)=0,7

B games genigepanope kanegeri nasop brogner armaios speochazyemis b armai i na combemembyrowen berroge. Nou man na oimaumrx berrogar geninbyrom urmain O. Taron geningepamop nazibalnal geningepamopou c republiku berrogaille.

1 14. 11 Alice LANGER ALICE MODERANALIST Mu noungrolnum gennigramona na oreneumax M-ME reacu-

By spenie cumena grynnymi F= EN·m, = EN·M, j=0,7

taxoù gennepamoep nazobalence gennepamopou c'unbepenen baxo game. Ila brixogax geningrjumopa gropiningemis unbepune grynsyni Fi, mo eunt ammibrari ypobieti birxoga dygem ninzum ypobent curnata.

15 suntunau genniquemone brene zagennica painpoinpaneme curmous om agrilimoro in compostypyrousero brogos go burroga pabno Speulin zageprisen paraparaneme currara b serie nocregobaneitho Cocuorennera relucima N (N-HE) u unbenmondo:

t3g.p. up=2t3g.p. up1+t3g.p. up2,

ryl tz. p. p. p. 1, tz. p. p. 2 - gregnel grend zagernian pampolypanemia curvata b unbeumone a consumment combementimbeumo.

Mysungasonin genngenemop. Purpoluignionista geningramop inpounce na ourobe nonegobamentoria (xuragnoù) peninzagni brixogninx grymagni.

the replace much planifyromes voursioners un gryx replacements:

AAAO, AAAO, AAAO, AAAO

Ra brogan mane ble konstruktym ryper rependunt mynen mynen sometakoro ymmenne kampan pane rompennoù konstruktym 2 nependunt na Az (Az)

AzAnto, Az hado, Az Anto, Az Anto,

Az An Ao, Az An Ao, Az An Ao, te An Ao the imperior mane kangger in nougherment beine kontrongen ingree repersoner yumomuson in Az (Az). Takun objection, na kanggen anggreene mane noupaion bytoe Soume konsonkym, ren va nnegrigymen. Myranugassonore generappumpper veralucus om rucia ux brogos impremie na ourse mouse glyntriologerx vousionumonol.

Mucio narrayob nuparrigarenoro germappimopa paeno 11-1, Epera respondent painpointparline urmaios & gennippermone ybennubalmica monoportunamo muy kaixagos. nomany o naimoente spene miparingaможе денициратори не применента. Однако принцип киращивания развит и пипомущеть в каскадной схеме соединения деницираторов.

13 kanyou kackage npourogum napeurubanul ne na ogun ogne-Contra purpag, rax & nigramigationem germypomope, a na necrosisso, meno komiopiere palmo muny appeniere pazpegol irpomoro gennappaтора, на основе которого строится денирритор с пеобходишки чисти agreuren brogol, komoperu varobiu cuoniniu gennypamopan. Mu napausubarum vinalizyronice broger parpenience rpointer genuppangrob

Temparleme romon & gennegranopax.

Bulgimbre repersonier magende u breveriner zagermen anna ob sener sommens sener sommens senermob monym bozninchymt max mazerbalante rouse (comezania), npubogerzue k neebienun rominer annach na buxoyax cxeus. Dindinu greyimban, nozbarnowne nikurumo ronku, streme impolipobarine (finglilline us unipopularionnoso umaia той части, которая свободна от искатеший, вызываетых чотками.). Composippination amount na most broge parspelleng EN ne gourner Joint culmibure le breus repensymen npoyeur le gennigipamone. Conpobupyrousite boy unauszymile marine que napanjubanie geningeramona.

3. Maumiliae rains glynbrogoboro gengramona C 1) Maregolanue suretinoro unbepenseum Enxogam : a) dru coopan suncinssii conposingement geninggramop na ELLEUMAX 311-HE; nasopu bxiognesix agreement curnatos Ao, A1 zaganu c baxogob anavora cremnura; mogrenoremi chemobre ungukamopul K buxogan ananora cremnuka u K buxogan gemugpamopa. Pezyumama npeginabiene & nparomenia na puynke 1; d) nogamb na boog curnar c buxoga kmora (Switch) nor. On 1, kan renepamopa ogunornex hunguscob; usuende comoenul cremruka c nationisso know, comulius maching umunnoum nempolypenoro generappurmona (m.e. npu EN=1). Tachinga npegemaliena b npuromenum 6) nogomb na baoy curnai renepamopa a cnormo Epenembre guarpamuch armaios gennypamopa. Pezzyromanus npegimubienus la Aprilomeniu na piccipirce 2 u picyrice 3. 2) Onnegerumo airmunyyy nouex, bozbannon romanu, na fuxogax gennyymmona 9) enemb brevennue granpatitus curriculos compositiques geningera-mopa; le kareinste compositiques curricula un que sobiento linbepentitu curricular renepamopa, zagenniamente lumiente zagennicia normelicano enemble (notingumelle in unbenmonob); e) onpegnumb breus sageprassen, neovogrunde que unxuorence monex na bernogen germagipamopa, borbainner romante. Perguonames representablemes na pungune 6 8 Aprilonemin. 2) Valegobanne gennepamopa 74LS155

a) consent spenepome granpament curvais gbyrbrogoboro gennegopamopa, nogobas na ero agreenne brogo 142 arman do a Q. Brixogob creminica, a na composignypousue exoger Es uEy-wungeren renepamopa. Perguemaine npegimableur na puryukax 7 u & & ripurementu.

d) Onpegement boles rai bissogus gennggranga;

Sagepner ulm

B) conframe exemy mnixbxogoboro gennymemona na ocnobe gennyme mona 74 LS 155, zagabal bxognine curriam Ao, A, Az C buxogob Q, Q, Qz cremura; enems spenenne guarpantis curriais genniquamopa a cornabimb no net mading umumocomu.

Pezylomanus npeginialiens & npuiosienus na purgusiax 9u 10, madringe 4

3) Mullyobarrul gennuppamopo 74LS139, anavorurno n.2. MC 74LS139 cogennum gla gennupramopa DC 2-4 (V1A v V2B) c pazgetonorum agprennum brogame u parpenenna. Brogn parpenenne - unbepener. Tax kak kak kungent genneprumppumop unem ogun brog parpenenna, no gra odparobam gbyx unbenius brogob, neobrogimo nepeg brogon parpemente tollowit ghyxbxogobou 13.

Peryumanus nyegimabiens & nyumoneniu na punyukan 11412 madiuse 5

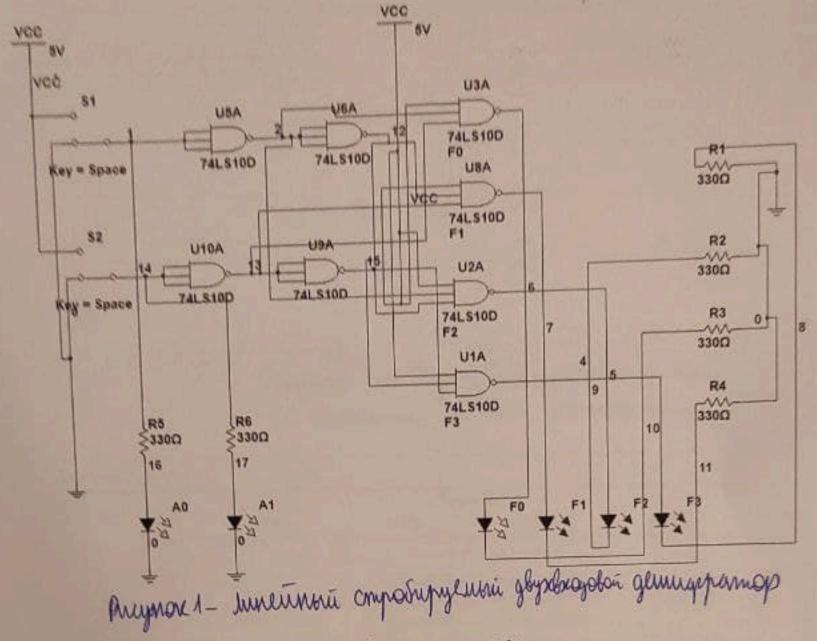
4) Villegobamb parsomoinoisotroumb geningpamona 74LS138 a) commb brenemme guarpament cumanob neurostyryenoro geninapparmona DC3-8 74LS138, nogabas na ero agrecime boxogin 1,2,4 curriente Qo, Q1, Q2 c buxogob crémmura, a na bxogor pargnemenna E1, E2, E3- unament sor 1,0,0 combementeuro.

Persystemanus meganiabilius & Musionerius napusymax 13 u 14.

5) coopamb exercy generations DC 5-32, whating memograte raysamentanua mua brogot u inamo bremembre gnargamen currando, nagadas na ero agnemente exogen curriada Qo, Q, Qz, Qz, Qz, Qz C Berxogos S-pazpignoso currinua, a na exogen pazpiemenne - minjutes renepamopa, zagepran-

Pergumanus ryleginiablemen & rymomenum na prengrikar 15,16,17.

Munorume



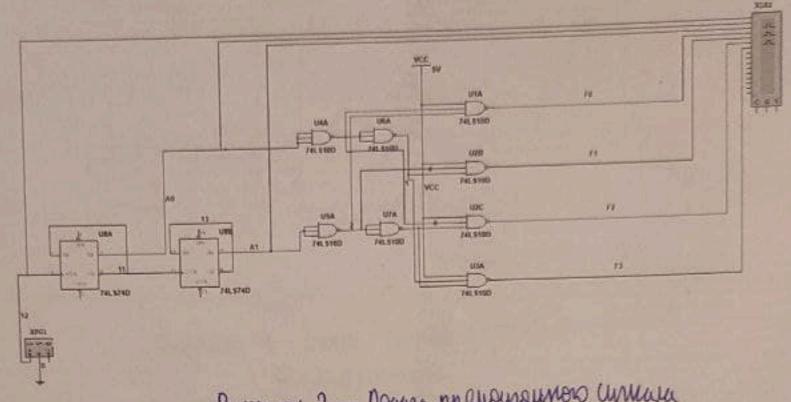
Tabunja numumoumu glungpamopa jalinga 3

40 A1 F0 F1 F2 F3

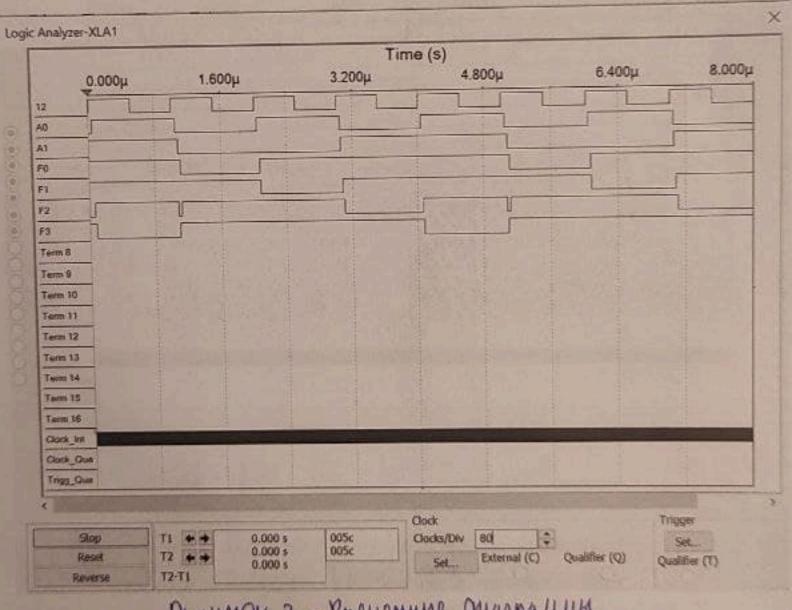
0 0 0 1 1 1

0 1 1 0 1 1

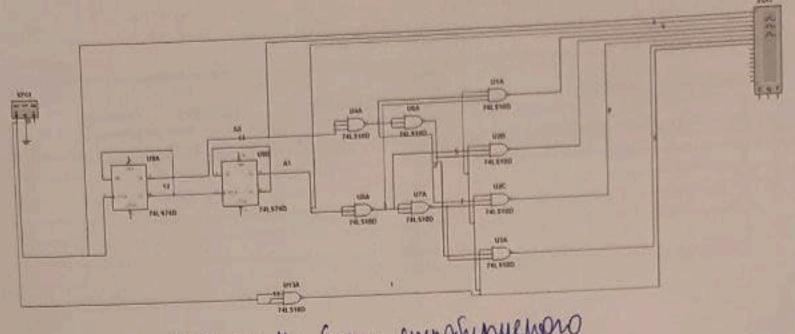
B maduigl 3 npegimabiena madiusa uiminnoinui glysboxogoboro geringepirmopa, nu brog somopioro nogalinea curvas c birroga susera (Switch) sor. Out, sax renepamopa ogninomisis uimpiocoli



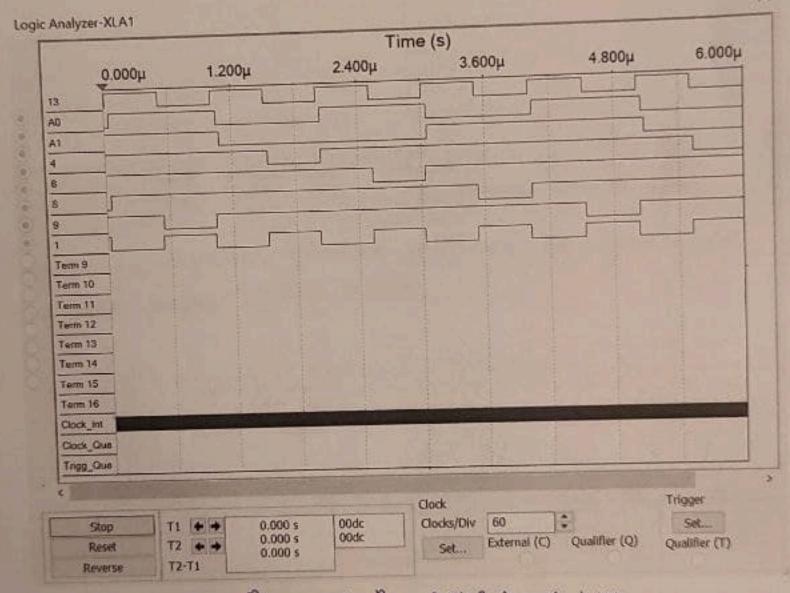
Рисупок 2 — Подага премоученного сигнала с генератора на вход денициранира



Prugnok 3 - Brevenne guarpallust unusib genngpanga

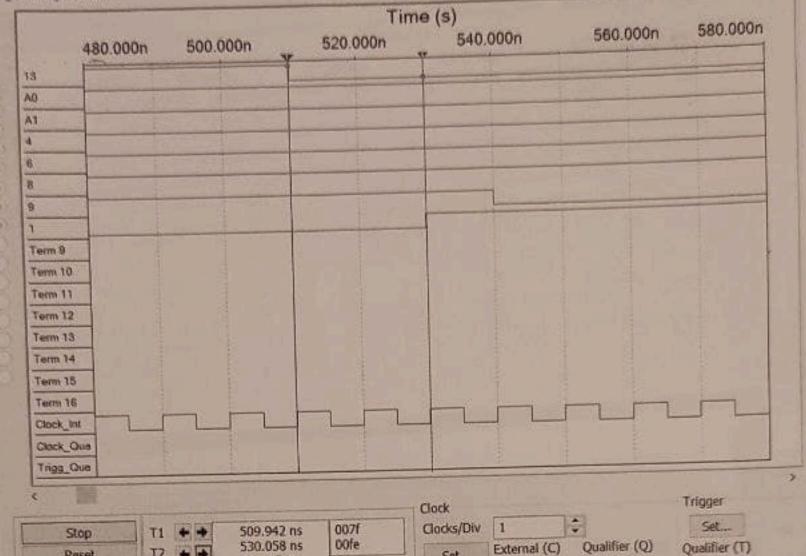


Puignon 4- Cxeur composignemento gennippamopa



Buynox 5- Brenemas guarpanina annas ornasos composiquesos genupramera ornasos composiquesos curmasa obre unastezoban undependi curma renepamopa.

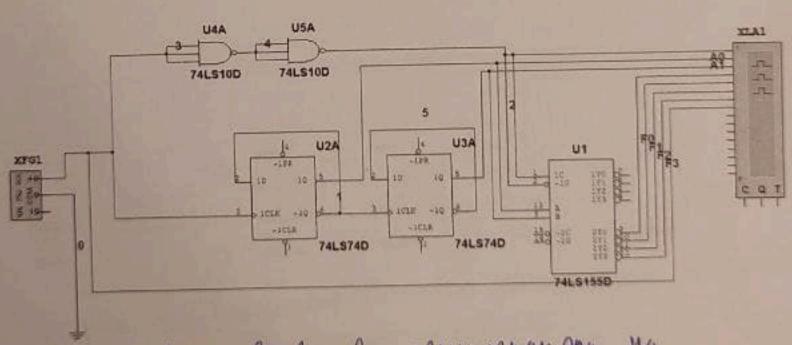
Reset



×

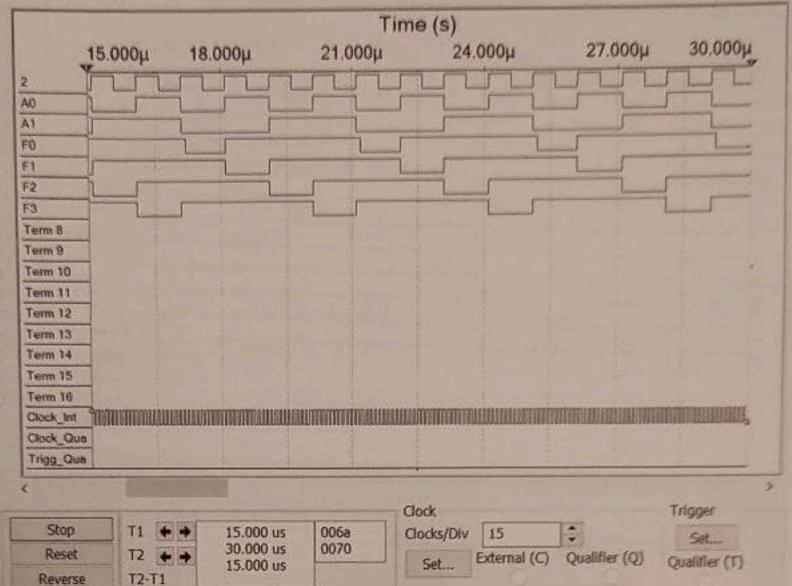
Pruggon 6 - Onpegenenne Sperienu zageprina na guarpanne Sageprina pubna 20,117 m ~ 20 m

20.117 ns

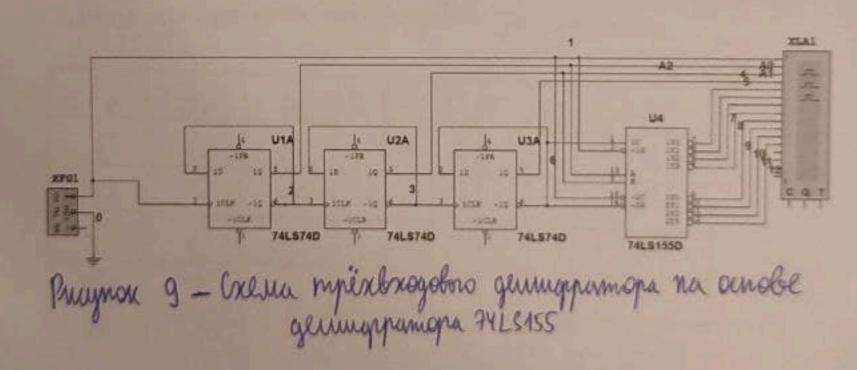


Pucymon 7 - Cresia gbyrchrogoboro glumppamopa na ocnobe 74LS155D

о

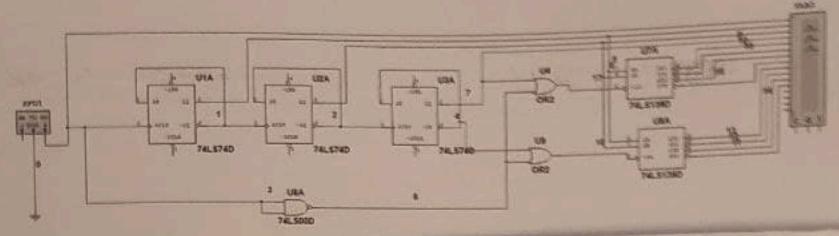


Physica & - Brenemas guarpanina ghyxbxogoboro gennygramopa



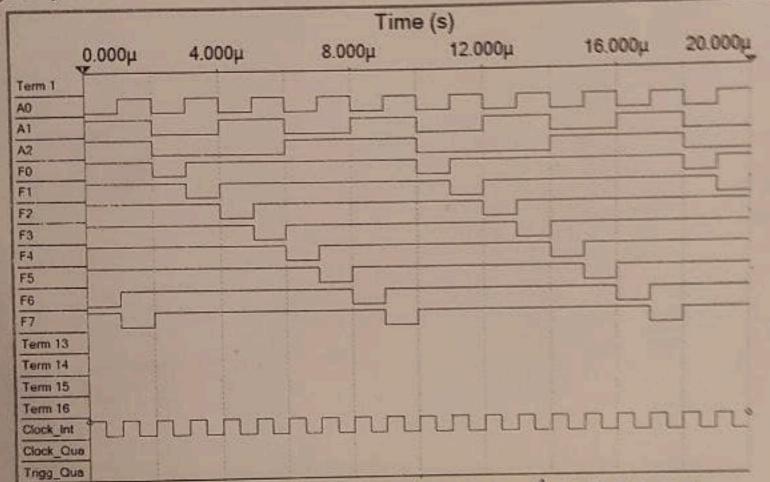
Prugnox 10-Brevennae granjanua nyrexbrogoboro gerrugipamopa.
Tadima nimumoumi nyrexbrogoboro gerrugipamopa.
Tadima 4

							-		_	-
Ag	A	Ap	Fo	FA	F,	F	Fy	Fs	F6	F ₄
0	0	0	0	1	1	1	1	1	1	1
0	0	1	1	0	1	1	1	1	1	1
0	1	0	1	1	0	1	1	1	1	1
0	1	1	1	1	1	0	1	1	1	1
A	0	0	1	1	1	1	0	1	1	1
1	0	1	1	1	1	1	1	0	1	1
1	1	0	1	1	1	1	1	1	0	1
1	11	1	1	11	1 1	1	1	1	11	0



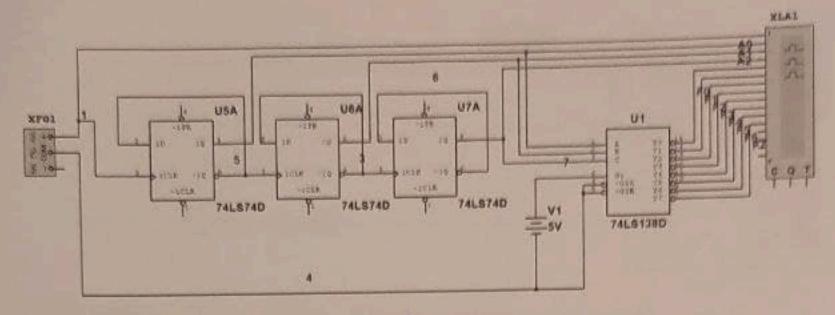
Purysion 11- Cxeria C gbyne gennggramogram DC 2-4

Logic Analyzer-XLA1

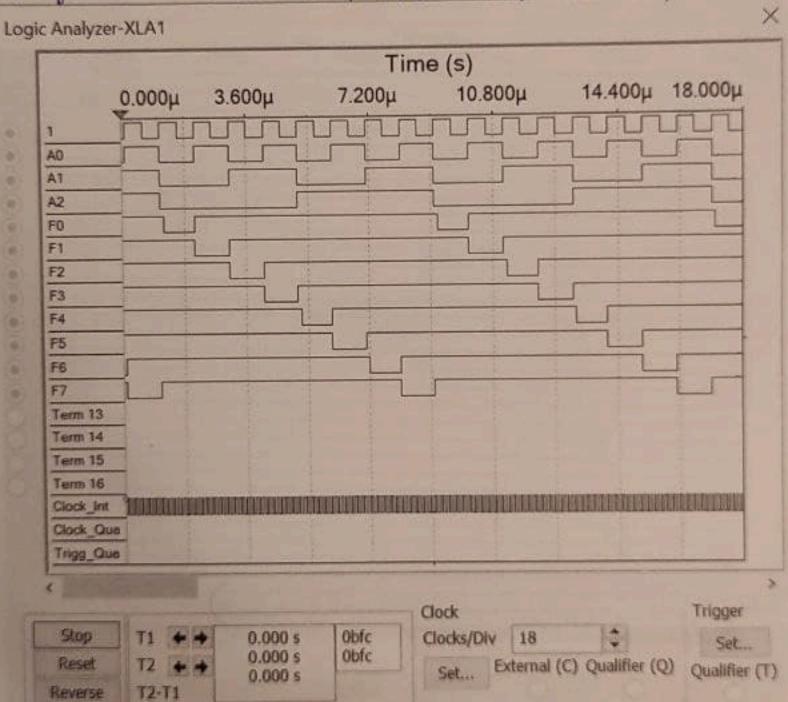


Pregnon 12 - Brenennal guarparlina exelus cobyring DC 2-4.
Talinga umumpumu exelus cobyrin geningepanoparin DC 2-4.

									hard from	0
Az	A	An	Fo	Fa	E	Fz	Fi	Fr	Fa	6
0	0	Ó	0	1	1	1	1	1	1	1
Ŏ	0	1	1	0	1	1	1	1	1	1
0	1	0	1	1	0	1	1	1	1	1
0	1	1	1	1	1	0	1	1	1	1
1	0	0	1	1	1	1	0	1	1	1
1	0.	1	1	1	1	1	1	0	1	1
1	1	0	1	1	1	1	1	1	0	1
1	1	1	1	1	1	1	1	1	1	0

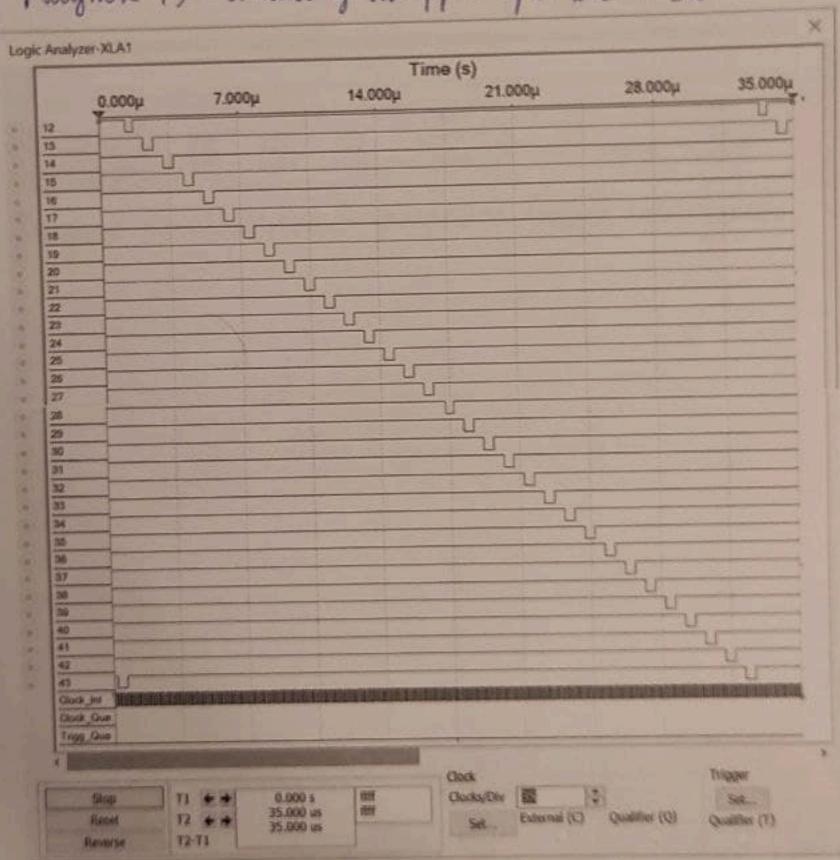


Punynon 13 - Oxens neumpostupyenoro gennypumopa

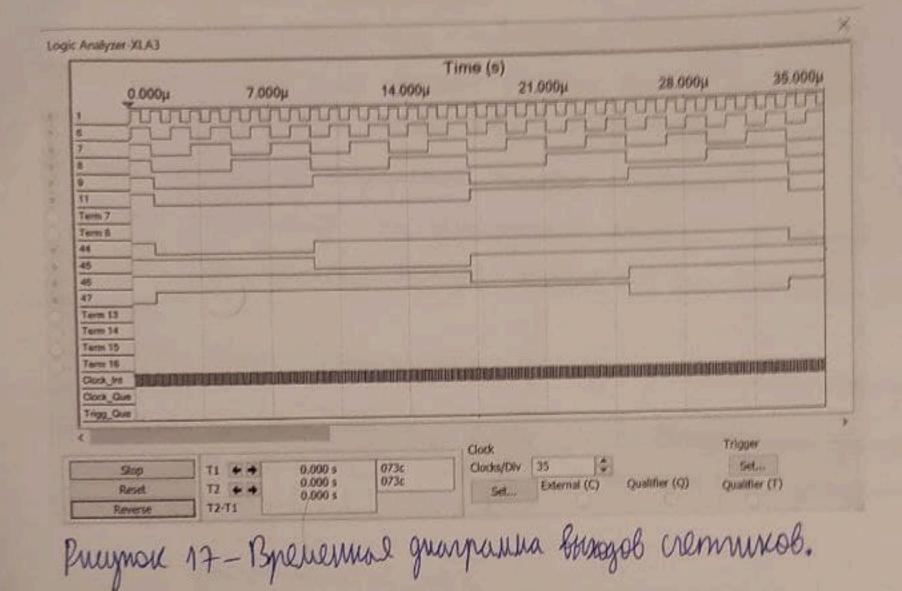


Paugnor 14-Brenemas guarpanna genngeparagra

Pungnox 15-cxeus gennappamopa DC 5-32



Рицион 16 — Врененная дистранна выходов денидерстора.



houmpational donpour

mo voudunauguorensi yper En broguer a N berrogeru, vomopeni medyangen vanasab 6 arenubusti una karage vanasab 6 arenubusti una karage vanasab 6 arenubusti una karage, vomopei combemenbylin mally nasopy.

2) Karon gennypanop varabalance nauna (nenauna)?

nami geningramop-mo geningramop, unevanjui n brogol u 2º arriogob. Eun vouviendo berriogob menque, mo mo nenamini ge-unopramop.

3) Onpegeiume zuvon opymunomyobanua czemnepramopa anammurewa u

t- Gernagnan armus gernygrangna

Ai-beggioù urmat genngepanges

madurance Fo= EN. An. A. Anz A. As

FA= EN. An. A. Anz A. A.

Fz=EN. An. A. An. Z. An To

FN-1 = EN . An-1 . An-2 An Ao FN-1 = EN . An-1 . An-2 An Ao

Mountainquel materimal armanue zaxona opyniquemoral germpyramora

	grage					
EN	Asl	Ao	Fo	FA	FI	F3
0	×	1/2	0	0	0	0
1	0	0	1	0	0	0
1	0	1	0	1	0	0
1	1	0	0	0	1	0
1	1	1	0	0	0	1

a) resemble another choises nompoemel glumppumopolis de close original le comprende de close original le comprende de comp

cosos 2" konservamojob um 17 MM-NE c n-bxoyam rangora (numbra), en

emb unjoingdown!

Perpansymente compande na sende nocsegobamentati (racragnai) pranzazione

Essercita apprentiano - que na pareplanes parpegname generappemos innaissignones nestativo menerina, na harigan no vomopero generappemos ipyrme parprepo exagnaro voga. Employers 2014 14.2

lingament rolliami?

Bugumbul replexagnux reposeud u brevennux zagepmen unuard 6 yenex A3 mayor bosningons élienne, nasorbalune romanu (comersame), rouse norserem composigna om ukamenu (ronok)

6) Karoba crocala napunjubanus gennapparapol no vouvienby brogot

u buxayob u vax onu peningyronue Exemphexenineixu?

DC n-N, nounpointate in mountain openingpamaged DC n1-N1. In nxx1 ->

Theo kawagob K= 17, muso ryromus germapparnigrob DC & buscognan

Mackage: Na, B npegbingnon Nr, Bo Brognon NK

В виходном кискаде денинаручитья по мадиних разрадов адреса сможного денинаручиться и т.д. По входном каскаде денинаручить учутта emapuura parsproyob dypeca.

Виждун дениирраторов предвиждуного наснада соединение со входами разрешение простих устиров виждуного наснада и т.д.

Bushoy пород выполнения кабораториой рабония свями рамирраторов; возможности менентих и хамадиях денирраторов, спосоды устранения помех на выходих денирраторов, спосоды устранения помех на выходих денирратора, вызваниях померши; развития новыми чительномия, 1. Memograeckule ykazanus no Banainemus sasopamoproti pasoma no cxeuomexnuse, Pasoma Nº3. recuegobarne gennepramoproti.