

HH	HH	EEEEEEEEEEEE	RRRRRRRRRR	CCCCCCCCC	00000000	11	SSSSSSSSSS				
HH	HH	EEEEEEEEEEEE	RRRRRRRRRR	CCCCCCCCC	0000000000	111	SSSSSSSSSSS				
HH	HH	EE	RR	RR	CC	CC	00	00	1111	SS	SS
HH	HH	EE	RR	RR	CC		00	00	11	SS	
HH	HH	EE	RR	RR	CC		00	00	11	SSS	
HHHHHHHHHHHH	EEEEEE	RRRRRRRRRR	CC		00	00	11	SSSSSSSSS			
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HH	HH	EE	RR	RR	CC		00	00	11	SSS	
HH	HH	EE	RR	RR	CC		00	00	11	SS	
HH	HH	EE	RR	RR	CC	CC	00	00	11	SS	SS
HH	HH	EEEEEEEEEEEE	RR	RR	CCCCCCCCC		0000000000	1111111111	SSSSSSSSSSS		
HH	HH	EEEEEEEEEEEE	RR	RR	CCCCCCCCC		00000000	1111111111	SSSSSSSSS		
	JJ	000000000000	BBBBBBBBBB				44	333333333	999999999		
	JJ	000000000000	BBBBBBBBBB				444	33333333333	99999999999		
	JJ	00	00	BB	BB		4444	33	33	99	99
	JJ	00	00	BB	BB		44	44	33	99	99
	JJ	00	00	BB	BB		44	44	3333	99999999999	
	JJ	00	00	BB	BB		44	44	3333	99999999999	
	JJ	00	00	BB	BB		444444444444	33		99	
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JJJJJJJJJJJJ	000000000000	BBBBBBBBBB					44	33333333333	99999999999		
JJJJJJJJJJJJ	000000000000	BBBBBBBBBB					44	333333333	9999999999		
PPPPPPPPPP	RRRRRRRRRR	00000000	00000000	EEEEEEEEEEEE							
PPPPPPPPPP	RRRRRRRRRR	0000000000	0000000000	EEEEEEEEEEEE							
PP	PP	RR	RR	00	00	00	00	EE			
PP	PP	RR	RR	00	00	00	00	EE			
PP	PP	RR	RR	00	00	00	00	EE			
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PP	RR	RR	00	00	00	00	EE				
PP	RR	RR	00	00	00	00	EE				
PP	RR	RR	0000000000	0000000000	EEEEEEEEEEEE						
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PP	RR	RR	TT	11	4444444444444	00	00	33			
PP	RR	RR	TT	11	44	00	00	33	33		
PP	RR	RR	TT	1111111111	44	0000000000	33333333333				
PP	RR	RR	TT	1111111111	44	00000000	333333333				

[illegible]

IAT6140 JOB ORIGIN FROM GROUP=ANYLOCAL, DSP=IR , DEVICE=INTRDR , 000  
00:20:19 IAT4401 LOCATE FOR STEP=SIM DD=STEPLIB DSN=SYS2.SIMULA.LINKLIB  
00:20:19 IAT4402 UNIT=3380 ,VOL(S) N/A: UNIT NOT JES3  
00:20:19 IAT4401 LOCATE FOR STEP=GO DD=SYSLIB DSN=SYS2.SIMULA.LINKLIB  
00:20:19 IAT4402 UNIT=3380 ,VOL(S) N/A: UNIT NOT JES3  
00:20:19 IAT4401 LOCATE FOR STEP=GO DD=SYSLIB DSN=SYS2.SIMULA.LINKLIB  
00:20:19 IAT4402 UNIT=3380 ,VOL(S) N/A: UNIT NOT JES3  
00:20:19 IAT2000 JOB 0439 HERC01S SELECTED TK4A GRP=JS3BATCH  
00:20:19 IEF403I HERC01S - STARTED - TIME=00.20.19  
00:20:19 IEFACTRT - Stepname Procstep Program Retcode  
00:20:19 HERC01S PRIMES SIM SIMULA RC= 0000  
00:20:19 HERC01S PRIMES GO LOADER RC= 0000  
00:20:19 IEF404I HERC01S - ENDED - TIME=00.20.19

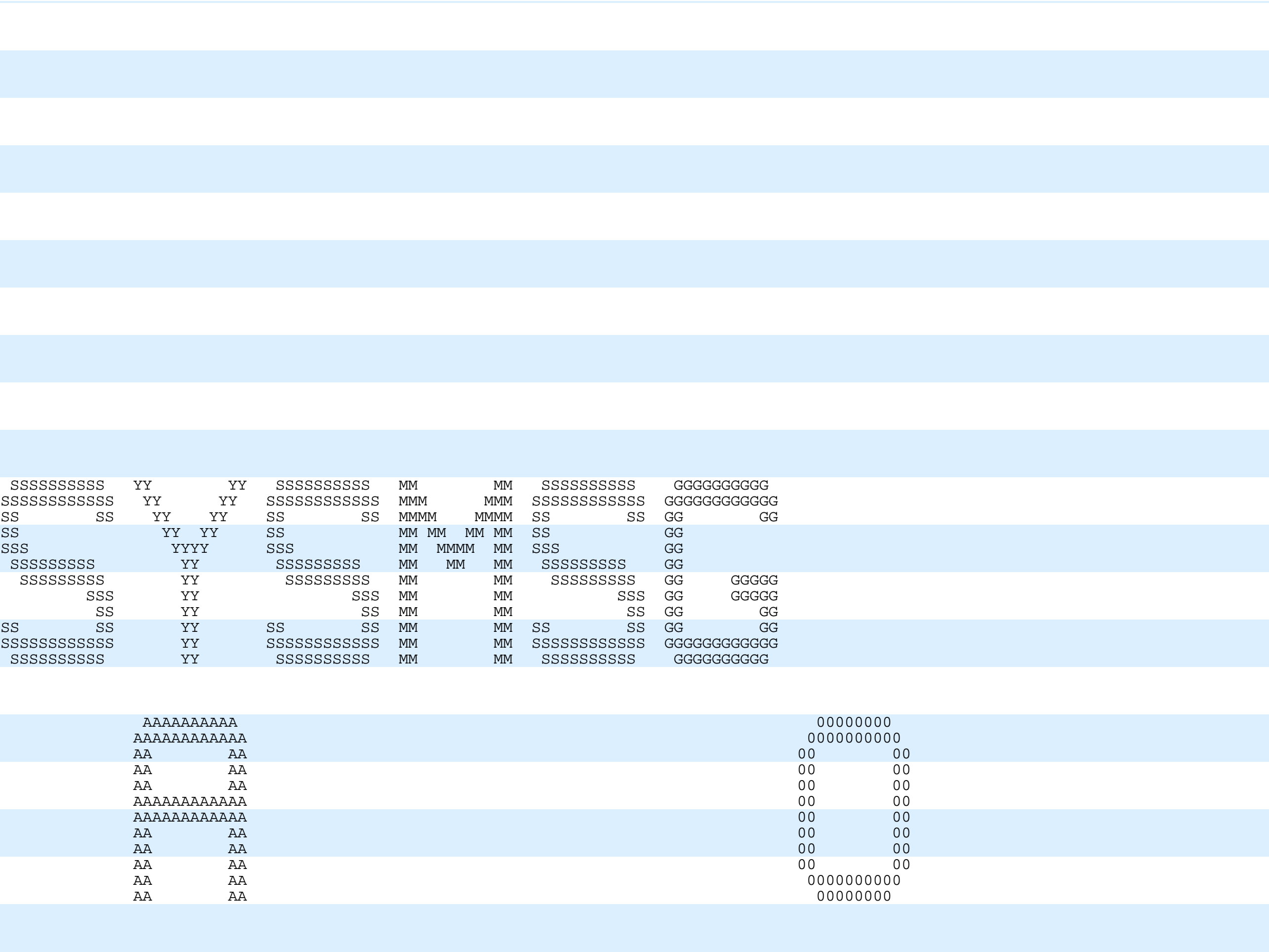
[illegible]

```

//HERC01S JOB (SIMULA),
//          'SIMULA ',
//          CLASS=A,
//          MSGCLASS=A,
//          REGION=9000K,TIME=1440,
//          MSGLEVEL=(1,1),
//          USER=HERC01,PASSWORD=
//*****
//*
//* Name: SYS2.JCLLIB(PRIMSIMU)
//*
//* Desc: Sieve of Eratosthenes programmed in SIMULA.
//*       All prime numbers up to the value entered via
//*       //GO.SYSIN DD are computed.
//*
//*****
//PRIMES EXEC SIMCG
//SIM.SYSIN DD *
/*
//GO.SYSIN DD *
/*
//GO.SYSOUT DD SYSOUT=*
//GO.PRIMOUT DD SYSOUT=*,DCB=(RECFM=FBA,LRECL=161,BLKSIZE=16100)
1 //HERC01S JOB (SIMULA),
//          'SIMULA ',
//          CLASS=A,
//          MSGCLASS=A,
//          REGION=9000K,TIME=1440,
//          MSGLEVEL=(1,1),
//          USER=HERC01,PASSWORD=
//*****
***
*** Name: SYS2.JCLLIB(PRIMSIMU)
***
*** Desc: Sieve of Eratosthenes programmed in SIMULA.
***       All prime numbers up to the value entered via
***       //GO.SYSIN DD are computed.
***
//*****
2 //PRIMES EXEC SIMCG
3 XXSIMCG PROC EXLIB='SYS2.SIMULA.LINKLIB',GOPARM=,SOUT='*'
//*****
***
*** Name: SYS2.PROCLIB(SIMCG)
***
*** Desc: SIMULA compile and go
***
//*****
4 XXSIM EXEC PGM=SIMULA
5 XXSTEPLIB DD DSN=SYS2.SIMULA.LINKLIB,DISP=SHR
6 XXSYSPRINT DD SYSOUT=&SOUT
7 XXSYSUT1 DD UNIT=SYSDA,SPACE=(2000,(20,20))
8 XXSYSUT2 DD UNIT=(SYSDA,SEP=SYSUT1),SPACE=(2000,(20,20))
9 XXSYSUT3 DD UNIT=(SYSDA,SEP=(SYSUT1,SYSUT2)),SPACE=(2000,(20,10))
10 XXSYSUT4 DD UNIT=(SYSDA,SEP=(SYSUT1,SYSUT2)),SPACE=(1032,256),
XX DCB=DSORG=DA
11 XXSYSGO DD DSN=&&LOADSET,DISP=(MOD,PASS),UNIT=(SYSDA,SEP=SYSUT1),
XX SPACE=(1600,(30,30)),DCB=BLKSIZE=1600
12 //SIM.SYSIN DD *,DCB=BLKSIZE=80
13 XXGO EXEC PGM=LOADER,PARM='MAP,PRINT,LET,EP=ZYQENT/&GOPARM',
XX COND=(4,LT,SIM)
14 XXSYSLIN DD DSN=&&LOADSET,DISP=(OLD,PASS)
15 XXSYSLIB DD DSN=&EXLIB,DISP=SHR

```

```
16      XX          DD DSN=SYS2.SIMULA.LINKLIB,DISP=SHR
17      XXSYSLOUT DD SYSOUT=&SOUT
18      XXSYSOUT  DD SYSOUT=&SOUT
19      //GO.SYSIN  DD *,DCB=BLKSIZE=80
20      //GO.SYSOUT DD SYSOUT=*
21      //GO.PRIMOUT DD SYSOUT=*,DCB=(RECFM=FBA,LRECL=161,BLKSIZE=16100)
```



SSSSSSSSSS	YY	YY	SSSSSSSSSS	MM	MM	SSSSSSSSSS	GGGGGGGGGG
SSSSSSSSSSSS	YY	YY	SSSSSSSSSSSS	MMM	MMM	SSSSSSSSSSSS	GGGGGGGGGGGG
SS SS	YY	YY	SS SS	MMMM	MMMM	SS SS	GG GG
SS	YY	YY	SS	MM MM MM MM		SS	GG
SSS	YYYY		SSS	MM MMMM MM		SSS	GG
SSSSSSSSSS	YY		SSSSSSSSSS	MM MM	MM	SSSSSSSSSS	GG
SSSSSSSSSS	YY		SSSSSSSSSS	MM	MM	SSSSSSSSSS	GG GGGG
SSS	YY		SSS	MM	MM	SSS	GG GGGG
SS	YY		SS	MM	MM	SS	GG GG
SS SS	YY		SS SS	MM	MM	SS SS	GG GG
SSSSSSSSSSSS	YY		SSSSSSSSSSSS	MM	MM	SSSSSSSSSSSS	GGGGGGGGGGGG
SSSSSSSSSS	YY		SSSSSSSSSS	MM	MM	SSSSSSSSSS	GGGGGGGGGG

AAAAAAAAA
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AA AA
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AA AA

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00 00
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00 00
0000000000
00000000

	STMT NO.	MESSAGE
-		
	6	IEF653I SUBSTITUTION JCL - SYSOUT=*
	13	IEF653I SUBSTITUTION JCL - PGM=LOADER,PARM='MAP,PRINT,LET,EP=ZYQENT/' ,
	15	IEF653I SUBSTITUTION JCL - DSN=SYS2.SIMULA.LINKLIB,DISP=SHR
	17	IEF653I SUBSTITUTION JCL - SYSOUT=*
	18	IEF653I SUBSTITUTION JCL - SYSOUT=*
	IEF236I	ALLOC. FOR HERC01S SIM PRIMES
	IEF237I	280 ALLOCATED TO STEPLIB
	IEF237I	JES3 ALLOCATED TO SYSPRINT
	IEF237I	140 ALLOCATED TO SYSUT1
	IEF237I	190 ALLOCATED TO SYSUT2
	IEF237I	170 ALLOCATED TO SYSUT3
	IEF237I	180 ALLOCATED TO SYSUT4
	IEF237I	190 ALLOCATED TO SYSGO
	IEF237I	JES3 ALLOCATED TO SYSIN
	IEF142I	HERC01S SIM PRIMES - STEP WAS EXECUTED - COND CODE 0000
	IEF285I	SYS2.SIMULA.LINKLIB KEPT *-----0
	IEF285I	VOL SER NOS= PUB002.
	IEF285I	SIM.PRIMES.SYSPRINT SYSOUT
	IEF285I	SYS16261.T002019.RA000.HERC01S.R0000002 DELETED *-----0
	IEF285I	VOL SER NOS= WORK00.
	IEF285I	SYS16261.T002019.RA000.HERC01S.R0000003 DELETED *-----0
	IEF285I	VOL SER NOS= WORK03.
	IEF285I	SYS16261.T002019.RA000.HERC01S.R0000004 DELETED *-----1
	IEF285I	VOL SER NOS= WORK01.
	IEF285I	SYS16261.T002019.RA000.HERC01S.R0000005 DELETED *-----0
	IEF285I	VOL SER NOS= WORK02.
	IEF285I	SYS16261.T002019.RA000.HERC01S.LOADSET PASSED *-----3
	IEF285I	VOL SER NOS= WORK03.
	IEF285I	JESI0001 SYSIN
	IEF373I	STEP /SIM / START 16261.0020
	IEF374I	STEP /SIM / STOP 16261.0020 CPU OMIN 00.02SEC SRB OMIN 00.01SEC VIRT 608K SYS 168K
*	*****	
*	1. Jobstep of job:	HERC01S Stepname: SIM Program name: SIMULA Executed on 17.09.16 from 00.20.19 to 00.20.19 *
*	elapsed time	00:00:00,07 CPU-Identifier: TK4- Page-in: 0 *
*	CPU time	00:00:00,03 Virtual Storage used: 608K Page-out: 0 *
*	corr. CPU:	00:00:00,03 CPU time has been corrected by 1 / 1,0 multiplier *
*	*	
*	I/O Operation	*
*	Number of records read via DD * or DD DATA:	98 *
*	280.....0 DMY.....0 140.....0 190.....0 170.....1 180.....0 190.....3 DMY.....0	*
*	*	
*	Charge for step (w/o SYSOUT):	0,05 *
*	*****	
	IEF236I	ALLOC. FOR HERC01S GO PRIMES
	IEF237I	190 ALLOCATED TO SYSLIN
	IEF237I	280 ALLOCATED TO SYSLIB
	IEF237I	280 ALLOCATED TO
	IEF237I	JES3 ALLOCATED TO SYSLOUT
	IEF237I	JES3 ALLOCATED TO SYSOUT
	IEF237I	JES3 ALLOCATED TO SYSIN
	IEF237I	JES3 ALLOCATED TO SYSOUT
	IEF237I	JES3 ALLOCATED TO PRIMOUT
	IEF142I	HERC01S GO PRIMES - STEP WAS EXECUTED - COND CODE 0000
	IEF285I	SYS16261.T002019.RA000.HERC01S.LOADSET PASSED *-----4
	IEF285I	VOL SER NOS= WORK03.
	IEF285I	SYS2.SIMULA.LINKLIB KEPT *-----319
	IEF285I	VOL SER NOS= PUB002.
	IEF285I	SYS2.SIMULA.LINKLIB KEPT *-----0
	IEF285I	VOL SER NOS= PUB002.
	IEF285I	GO.PRIMES.SYSLOUT SYSOUT
	IEF285I	GO.PRIMES.SYSOUT SYSOUT







COMPILER OPTIONS

NOLIST  
NODECK  
LOAD  
WARN  
SUBCHK  
NOXREF  
SOURCE  
NOTERM  
NOSYMBDUMP

LINECNT = 60  
MAXERROR= 50  
INDENT = 0  
RESWD = 0  
EXTERN = 0

```
00001  comment
00002  ***
00003  *** Eratosthenes' Sieve, direct iteration
00004  ***;
00005  begin                                     B1
00006  comment
00007  ***
00008  *** declarations
00009  ***;
00010      ref(outfile) primout;
00011      boolean array isprime(1:8400000);
00012      integer i,j,k,l,limit;
00013  comment
00014  ***
00015  *** initialization
00016  ***;
00017      limit := inint;
00018      for i := 3 step 2 until limit do
00019          isprime(i) := true;
00020      i := 3;
00021      k := 9;
00022  comment
00023  ***
00024  *** sieve
00025  ***;
00026      for i := i while k < limit do
00027          begin                                     B2
00028              for i := i while k < limit and not isprime(i) do
00029                  begin                                     B3
00030                      i := i+2;
00031                      k := i*i;
00032                  end;                                     E3
00033                  if k < limit then
00034                      begin                                     B4
00035                          for k := k while k < limit do
00036                              begin                                     B5
00037                                  isprime(k) := false;
00038                                  k := k+i+i;
00039                              end;                                     E5
00040                                  i := i+2;
00041                                  k := i*i;
00042                              end;                                     E4
00043                          end;                                     E2
00044                      end;
00045                  end;
00046              end;
00047          end;
00048      j := 1;
00049      k := 1;
00050      l := 0;
00051      primout := new outfile("PRIMOUT");
00052      primout.open(blanks(161));
00053      primout.outtext("1");
00054      primout.outint(2, 8);
00055  comment
00056  ***
00057  *** print 20 primes per output line
00058  ***;
```

```
00059     for i := 3 step 2 until limit-1 do
00060     begin                                     B6
00061         if isprime(i) then
00062         begin                                     B7
00063             j := j + 1;
00064             k := k + 1;
00065             primout.outint(i, 8);
00066             if j = 20 then
00067             begin                                     B8
00068                 primout.outimage;
00069                 j := 0;
00070                 l := l + 1;
00071                 if l = 62 then
00072                 begin                                     B9
00073                     primout.outtext("1");
00074                     l := 0;
00075                 end                                     E9
00076                 else primout.outtext(" ");
00077             end;                                     E8
00078         end;                                     E7
00079     end;                                     E6
00080     comment
00081     ***
00082     *** print incomplete last line
00083     ***;
00084     if j ^= 0 then primout.outimage;
00085     primout.outimage;
00086     comment
00087     ***
00088     *** print summary and close output file
00089     ***;
00090     primout.outint(k, 8); primout.outtext(" primes up to ");
00091     primout.outint(limit, 8); primout.outtext(" found");
00092     primout.outimage;
00093     primout.close; primout :- none;
00094     comment
00095     ***
00096     *** done
00097     ***;
00098     end;                                     E1
```

NO DIAGNOSTICS FOR THIS COMPILATION.

[illegible]

VS LOADER

```
OPTIONS USED - PRINT,MAP,LET,CALL,RES,NOTERM,SIZE=307200,NAME=**GO
              EP=ZYQENT
```

NAME	TYPE	ADDR	NAME	TYPE	ADDR	NAME	TYPE	ADDR	NAME	TYPE	ADDR	NAME	TYPE	ADDR
ZYQMAIN	SD	AC010	\$PRIVATE	PC	AC5C0	ZYQCNT	SD	AC620	ZYQININT*	SD	AC808	ZYQCOPY *	SD	AC850
ZYQENT *	SD	AC918	ZYQBSC *	LR	AC960	ZYQOPEN *	LR	AC9F4	ZYQCLOSE*	LR	ACB0E	ZYQPRINT*	LR	ACCE8
ZYQINFIL*	LR	ACDC4	ZYQIFEX *	LR	ACF50	ZYQRESET*	LR	AD012	ZYQSYN *	LR	AD16C	ZYQPAGE *	LR	AD224
ZYQWRITE*	LR	AD22A	ZYQFILE *	LR	AD33C	ZYQSTCNT*	LR	AD468	ZYQFSA *	LR	AD598	ZYQARRAY*	SD	AE428
ZYQBLANK*	SD	AE698	ZYQOUTTE*	SD	AE7A8	ZYQOUTIN*	SD	AE838	ZYQTERM *	SD	AE860	ZYQOUTIM*	SD	AECC0
ZYQOUTFI*	LR	AEDEC	ZYQLASTI*	SD	AEF68	ZYQLASTR*	LR	AF030	ZYQFIELD*	LR	AF044	ZYQCTAB *	LR	AF0E8
ZYQGETIN*	SD	AF1F0	ZYQTVASS*	SD	AF320	ZYQINIT *	SD	AF3E0	ZYQDATE *	LR	AF3FC	ZYQERR *	SD	AFF70
ZYQERRDP*	LR	AFF86	ZYQECB *	SD	B0B78	ZYQBC *	SD	B0C68	ZYQTRACD*	SD	B0CF8	ZYQTRACE*	SD	B12E8
ZYQATTN *	SD	B2110	ZYQSTORE*	SD	B2238	ZYQRTSCM*	SD	B3120	ZYQENTVI *	SD	B3D60	ZYQPUTIN*	SD	B4328
ZYQCOM *	SD	B4550	ZYQSNAP *	SD	B5398	ZYQACC *	SD	B53C8	ZYQREFER*	SD	B53D0	ZYQDEFLT*	SD	B5878
ZYQTIMEX*	SD	B58D8	ZYQMVCL *	SD	B5948	ZYQUSERX*	SD	B59B0	ZYQCOMUN*	SD	B59B8	ZYQERREX*	SD	B5A50
ZYQLNO *	SD	B5A88	ZYQLNMAP*	LR	B5A98	ZYQFORT *	SD	B5C98	ZYQPUTRE*	SD	B5FA0	ZYQGETRE*	SD	B62D8
ZYQSTCDA*	SD	B6578	ZYQMAPTR*	SD	B66A0	ZYQMAP *	SD	B6830	ZYQDUMP *	SD	B6CB8	ZYQGC6 *	SD	B7038
ZYQLDIG *	SD	B7278	ZYQEVD *	SD	B7380	ZYQTXTCM*	SD	B73E0	ZYQTSPIE*	SD	B7478	ZYQLNODT*	SD	B74A0
ZYQPRD *	SD	B74F0	ZYQSCALE*	SD	B7588									
TOTAL LENGTH		B638												
ENTRY ADDRESS		AC918												

GGGGGGGGGG	000000000000
GGGGGGGGGGGG	000000000000
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GG          GG	00          00
GG          GG	00          00
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GG          GGGGG	00          00
GG          GGGGG	00          00
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PP	RR	RR	IIIIIIIIII	MM	MM	EEEEEEEEEEEE	SSSSSSSSSSSS			
PP	RR	RR	IIIIIIIIII	MM	MM	EEEEEEEEEEEE	SSSSSSSSSSSS			

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SSSSSSSSSSSS	YY	YY	SSSSSSSSSSSS	000000000000	UU	UU	TTTTTTTTTTTT	
SS	SS	YY	YY	SS	SS	UU	UU	TT
SS		YY	YY	SS		UU	UU	TT
SSS		YYYY		SSS		UU	UU	TT
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	SS	YY			SS	UU	UU	TT
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SSSSSSSSSSSS		YY		SSSSSSSSSSSS		UUUUUUUUUUUU		TT
SSSSSSSSSS		YY		SSSSSSSSSS		UUUUUUUUUU		TT

AAAAAAAAAA	
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AA	AA

[illegible]

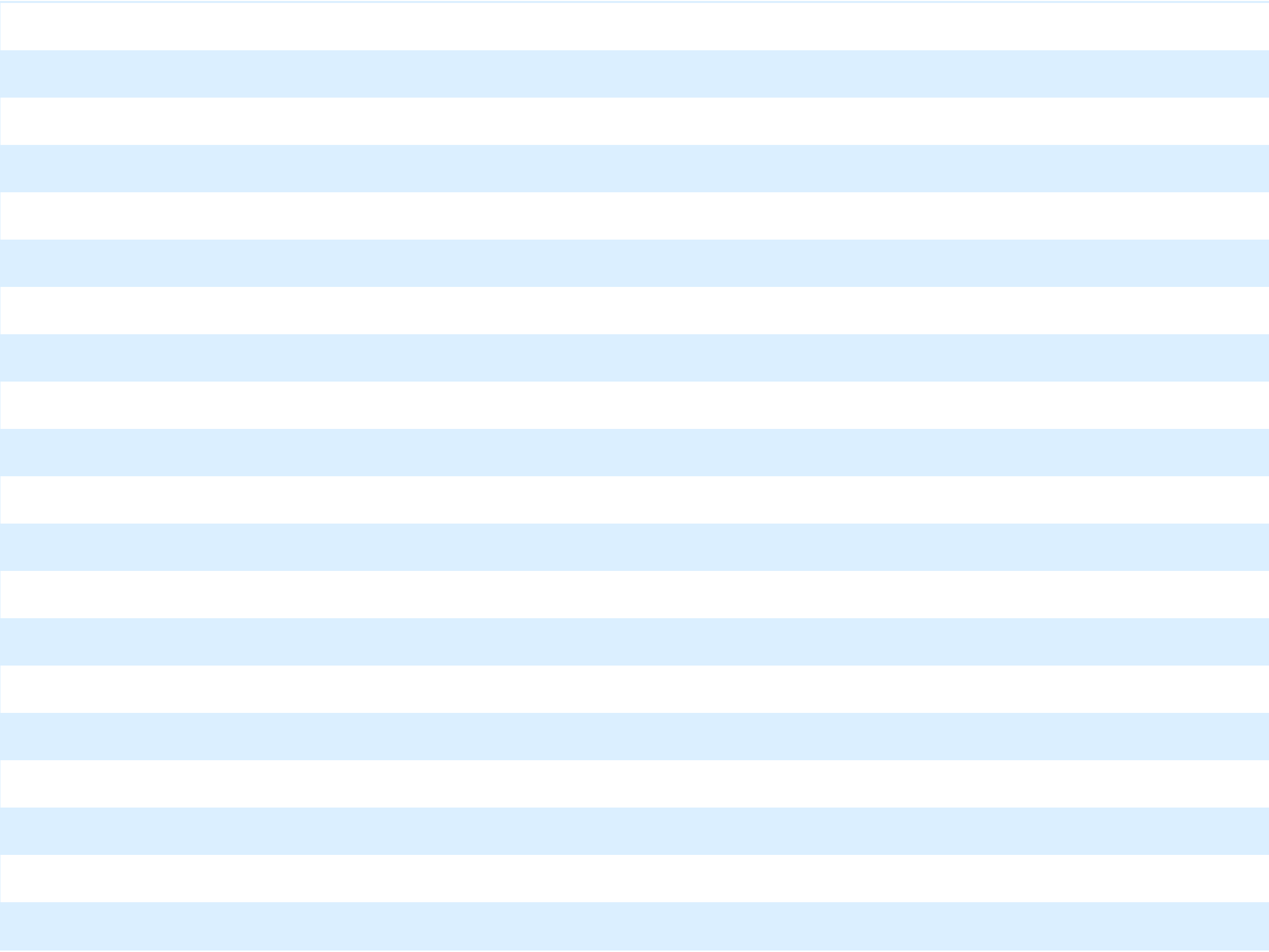


ZYQ994	SIMULA 67 RUN TIME SYSTEM : VERSION 12.00, DATE OF RELEASE 9 AUG 1985
ZYQ994	SIMULA PROGRAM COMPILED ON 17 SEP 2016 AT 0:20:19.37, START OF EXECUTION ON 17 SEP 2016 AT 0:20:19.37
ZYQ994	PROCESSING OPTIONS : DUMP=1,HIARCHY=0,LINECNT=60,SIZE=8929280,TRACE=0,SYMBDUMP=1

ZYQ994    END OF SIMULA PROGRAM EXECUTION AT        20:19.44    EXECUTION TIME 0.00 SEC.    RETURN CODE IS #00000000  
ZYQ994    00000 STORECOLLAPSES, DATA STORAGE USED : 8400856 BYTES

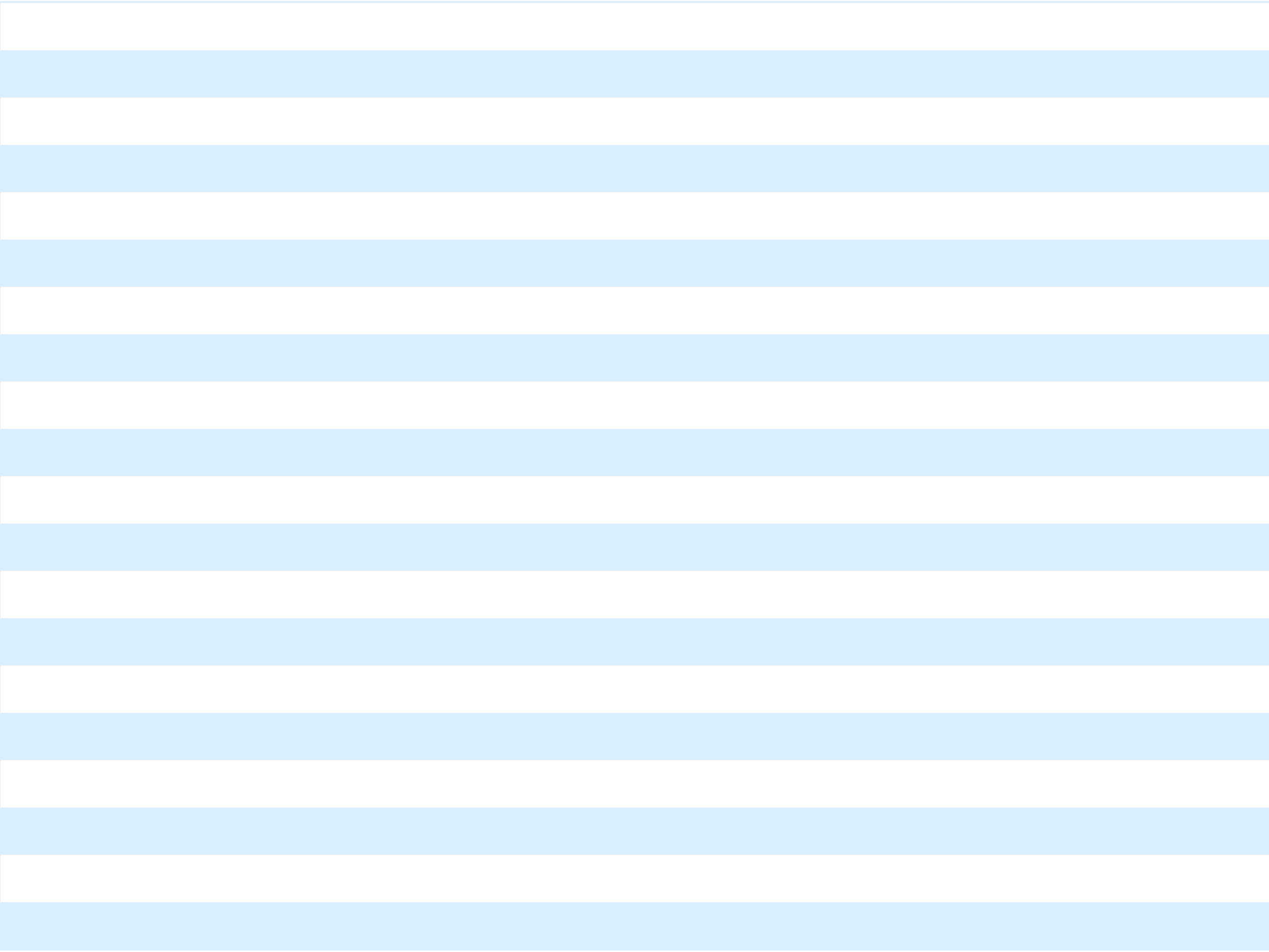
[illegible]

[illegible]



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