



EMPRESARIOS AGRUPADOS, S.A.
(EPTISA - GHESA - TRSA)

DEPARTAMENTO DE
ANALISIS MECANICOS

GUIA DEL

DEPARTAMENTO DE ANALISIS MECANICOS

SERIE ANALISIS MECANICOS	CODIGO: 00-GD-L-2001-U
TITULO PROGRAMA LFUERZA: Preprocesador de programa AGPIPE para preparación de datos de entrada. Manual de Usuario.	EDICION: 1 FECHA DE EFECTIVIDAD: DICIEMBRE - 87

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FECHA DE EDICION				DIRECT. DPTO. A. MECANICOS
1	NGA	RPV	EJC	ABI
DICIEMBRE-87	<i>Nariso Garcia</i>	<i>Ramon</i>	<i>EJC</i>	<i>Abel</i>

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DOCUMENTO SUJETO A
GARANTIA DE CALIDAD
Periodo de retencion PERMANENTE



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1 OBJETO Y ALCANCE

Diversos códigos para el cálculo de transitorios hidráulicos en líneas de tuberías utilizan cintas magnéticas para grabar sus resultados. Entre estos resultados están las fuerzas de onda en las líneas analizadas, las cuales han de ser utilizadas como dato de partida para el código AGPIPE en el análisis del soportado de dichas líneas.

LFUERZA es un programa desarrollado por EMPRESARIOS AGRUPADOS para postprocesar los datos contenidos en cintas grabadas por TRANVA, THICOM, BALDAG y RE5FOR y obtener los pares tiempo-fuerza de onda aptos como datos de entrada directos para AGPIPE, creándose los ficheros en disco necesarios para tal efecto.

El número máximo de parejas tiempo-fuerza que admite el programa AGPIPE para cada time-history es de 200, por tal motivo la función temporal grabada en cinta deberá reducirse en su número de puntos hasta la cifra de 200 o la indicada por el usuario. En el caso de que no se desee reducir tan drásticamente el número de puntos el programa LFUERZA contempla la posibilidad de generar varios time-histories de fuerza a partir de uno grabado en cinta solapando de 200 en 200 puntos hasta el número de puntos solicitado por el usuario.

El dimensionado interno del programa es capaz de retener hasta 20 time-histories de 10000 puntos cada uno antes de rebobinar la cinta con los datos grabados. De esta manera se aumenta la velocidad de ejecución.

2. RESPONSABILIDADES

El usuario del programa LFUERZA es responsable de su utilización conforme a la presente guía.

3. PROCEDIMIENTO

3.1 METODO DE CALCULO

El procedimiento de reducción consiste básicamente en los siguientes pasos:

a) Toma los puntos inicial y final de la curva.

b) Considera el punto más alejado de la recta que une los puntos anteriores.



c) Sustituye la curva por la quebrada formada por los puntos hasta ahora seleccionados y se considera el que más se aleja de la línea quebrada.

d) Repite el paso c hasta completar el número de puntos que se indique como dato.

El programa emite un mensaje con la máxima diferencia en ordenadas entre los time-histories antes y después de reducir.

Asimismo se contempla la opción de calcular la densidad espectral de potencia por el método de la transformada rápida de Fourier (Fast Fourier Transform) antes y después de la reducción con el fin de que el usuario pueda estudiar los efectos de la reducción del número de puntos en el contenido de frecuencias.

3.2 ENTRADA DE DATOS

FICHA N°	COLUMNAS	VARIABLE	TIPO	SIGNIFICADO Y USO
1	1-60	IYY	CARACTER	TITULO DEL TRABAJO
1 (2)	61-64	ICLA	CARACTER	CLAVE DE PROGRAMA (1)
2	1-10	W1	REAL	TIEMPO INICIAL
2	11-20	W2	REAL	TIEMPO FINAL
2	21-25	IR	ENTERO	0: NO CALCULA ESPECTRO 1: CALCULA Y DIBUJA ESPECT.
2	26-30	I1	ENTERO	0: NO DIBUJA GRAFICA 1: DIBUJA GRAFICA
2	31-35	I2	ENTERO	NUMERO DE PUNTOS DE LA CURVA REDUCIDA

FICHA N°	COLUMNAS	VARIABLE	TIPO	SIGNIFICADO Y USO
2	36-40	NRAT	ENTERO	N° DE RAMAS CONSIDERADAS (3)
2	41-45	IESC	ENTERO	N° DEL PRIMER TIME-HISTORY
2	46-55	FMAX	REAL	FRECUENCIA DE CORTE EN EL DIBUJO DE ESPECTRO (4)
3 (5)	1-5	IRA	ENTERO	N° DE LA RAMA
3	6-10	NTRAT	ENTERO	N° DE TRAMOS CONSIDERADOS (6)
3	11-15, 16-20... 76-80	ITRA	ENTERO	N° DE ORDEN DEL TRAMO (7)

NOTAS:

1. Las claves de los programas son las siguientes:

"LTHX" : Programa THICOMX

"LTHY" : Programa THICOMY

"LTHZ" : Programa THICOMZ

"LTRA" : Programa TRANVA

"LTR1" : Programa TRANVA1

"LBAL" : Programa BALDAG

"LR5F" : Programa RE5FOR versión IBM

"LR5C" : Programa RE5FOR versión CDC

2. Si la clave es LR5C se indicará entre los programas A y B que se usó el programa total de fuerzas de descarga.

3. Si es 0 se consideran todas las ramas y todos los tramos. Si es mayor que el número total de ramas, se consideran únicamente todas las fuerzas de descarga.

3. Si se deja en blanco se consideran todas las frecuencias.

4. Si la clave del programa es LR5C en esta tarjeta se incluirá entre las columnas 1 y 5 el número total de ramas del modelo.

En caso contrario se escribirán tantas como NRAT.

5. Si NTRAT = 0 se consideran todos los tramos de la rama.

6. Solo si NTRAT = 0. Se incluirán tantas tarjetas como sean necesarias.

3.3 UNIDADES DE LECTURA Y ESCRITURA

Unidad N° 4: Cinta magnética con resultados del programa de cálculo de transitorios hidráulicos.

Unidad N° 5: Lectura de datos de entrada.

Unidad N° 6: Escritura por impresora.

Unidad N° 8: Time histories reducidos para entrada en AGPIPE.

6. ARRANQUE DEL TRABAJO

La corriente de control para la ejecución del programa LFUERZA es la siguiente:

```
//EA???? JOB (,
// '???,M2670-1)', '??-??-?', CLASS=?, MSGCLASS=?, REGION=3000K, TIME=?
// *ROUTE PRINT RMT?
// EXEC PGM=LFUERZA3
//STEPLIB DD DSN=EA242X.MASTER.LOAD, DISP=SHR
//          DD DSN=SYS4.FORTVS, DISP=SHR
//          DD DSN=SYS4.VFORTLIB, DISP=SHR
//          DD SYSOUT=*
//F106F001 DD SYSOUT=*
//F104F001 DD DSN=???, UNIT=TAPE6250, DISP=(NEW,KEEP), LABEL=(?,SL)
//          DCB=(RECFM=VBS, BLKSIZE=32000), VOL=SER=EA????
//F108F001 DD UNIT=DISK, DSN=???, DISP=(NEW,PASS), SPACE=(TRK,(15,15)),
//          DCB=(RECFM=FB, LRECL=80, BLKSIZE=6160)
//F105F001 DD *
```

Las ? se rellenarán con los datos del usuario y del trabajo.

3.5 INCIDENCIAS DURANTE LA OPERACION

Serán las derivadas de la utilización del sistema operativo.



Deberá ponerse especial cuidado al consignar los datos de la clave del programa y de la cinta de lectura (unidad 4).

El programa no contempla la posibilidad de recomenzar el cálculo una vez producida una interrupción no programada.

3.6 EJEMPLO DE APLICACION

Como ejemplo de aplicación se ha estudiado un caso procesado con el programa THICOMZ. Los listados con la salida de resultados se incluyen en el apartado 9.

Se han procesado los time-histories para los tres primeros tramos de la segunda rama, con un tiempo de cálculo entre 0 y 0.02 segundos y 600 puntos de reducción, formándose por tanto tres time-histories de 200 puntos para cada tramo.

4. LISTADOS DE SALIDA DEL EJEMPLO

4.1 DATOS DE ENTRADA



```
//EA242X1 JOB (,
// 127,7#2670- ),'242-NGA-',CLASS=A,MSUCLASS=X,REGION=3000K,TIME=1
/*ROUTE PRINT RMT6
// EXEC PGM=LFUERZA3
//STEPLIB DD DSN=EA242X.MASTER.LOAD,DISP=SHR
//          DD DSN=SYS4.FORTVS,DISP=SHR
//          DD DSN=SYS4.UFORTLIB,DISP=SHR
//SYSPRINT DD SYSOUT=*
//F106F001 DD SYSOUT=*
//F104F001 DD DSN=CNTP.LCVP1.AP,UNIT=TAPE6250,DISP=(NEW,KEEP),
//          LABEL=(7,SI),
//          DCB=(RECFM=VRS,BLKSIZE=32000),VOL=SER=EA1059
//F108F001 DD UNIT=DISK,DSN=AA&TEMPORAL,DISP=(NEW,PASS),SPACE=(TRK,
//          (15,15)),DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//F109F001 DD DUMMY
//F105F001 DD *
PRUEBA DE PROGRAMA LFUERZA                                LTHZ
.0          .02          1          1 600          1          1
2          3          1          2          3
```

00010010
00020013
00030010

01250010
01272015
01272015
01273015



4.2 RESULTADOS



LFUERZA REVISION 1.

C.N.TRILLO-SISTEMA YP,
PRUEBA DE PROGRAMA LFUERZA
NO. TOTAL DE RAMAS= 5
NO. TOTAL DE TRAMOS= 13

TIEMPOS PUERTA	I.GRAF.	I.FFT.	NPUNTOS	NRAMAS	I.ESC.	F.MAX
0.000 0.020	1	1	600	1	1	0.000

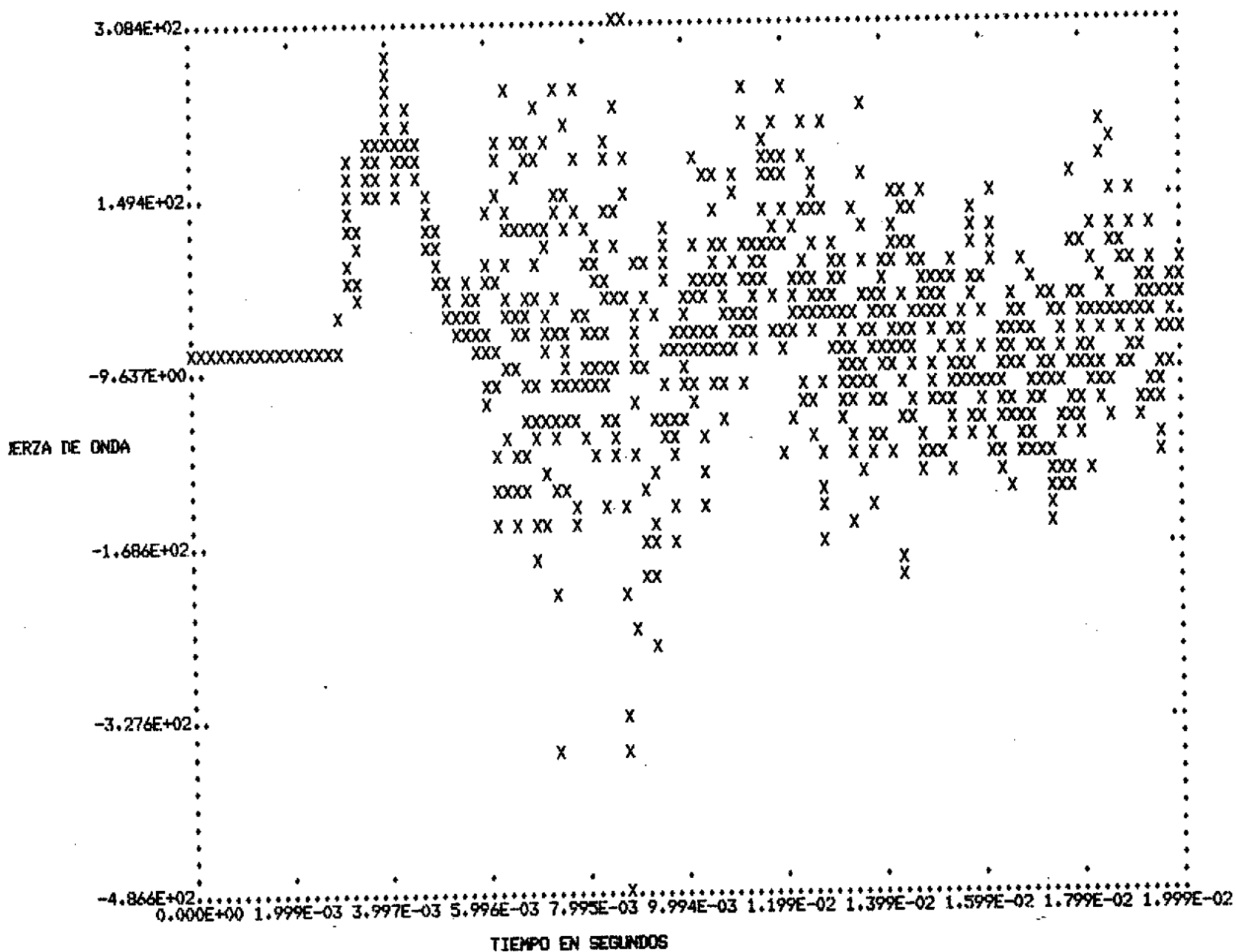
RAMA TTRA ----- TRAMOS NO.-----

2 3 1 2 3



LFUERZA REVISION 1.

.N.TRILLO-SISTEMA YP.
MA 2, TRAMO 1 CON 1053 PARES DE VALORES
IC1= 2)
ACION TEMPORAL ORIGINAL



```
//SIEPLIB UU DSN=EA242X.MASTER.LOAD,DISP=SHR
//      UU DSN=SYS4.FORTUS,DISP=SHR
//      UU DSN=SYS4.VFORTLIB,DISP=SHR
//SYSPR(NI UU SYSOUT=*)
//F106F001 UU SYSOUT=**
//F104F001 UU DSN=CONTYP,LCP1.AP,UNIT=TAPE6250,DISP=(NEW,KEEP),
//      LABEL=(7,SL),
//      DCB=(RECFM=VRS,BLKSIZE=32000),VOL=SER=EA1059
//F108F001 UU UNIT=DISK,DSN=**TEMPORAL,DISP=(NEW,PASS),SPACE=(TRK,
//      (15,15)),DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//F109F001 UU DUMMY
//F105F001 UU *
PRUEBA DE PROGRAMA LFUERZA
```

LTHZ

.0	2	3	1	2	3	1	1
			.02		1	1	600
					1	1	1

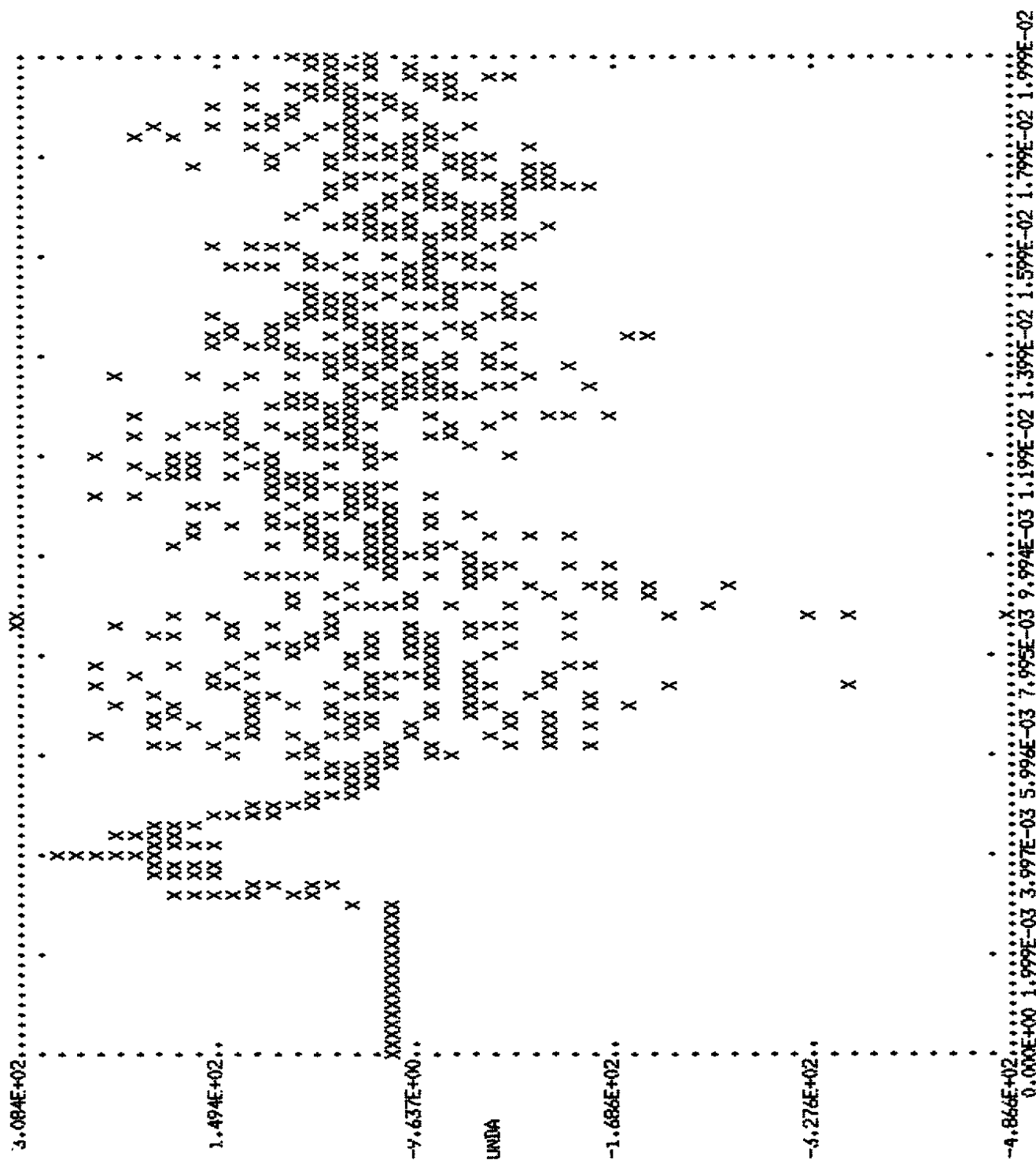
01250010
01272015
01272015
01273015

NU. TOTAL DE TRANOS= 13

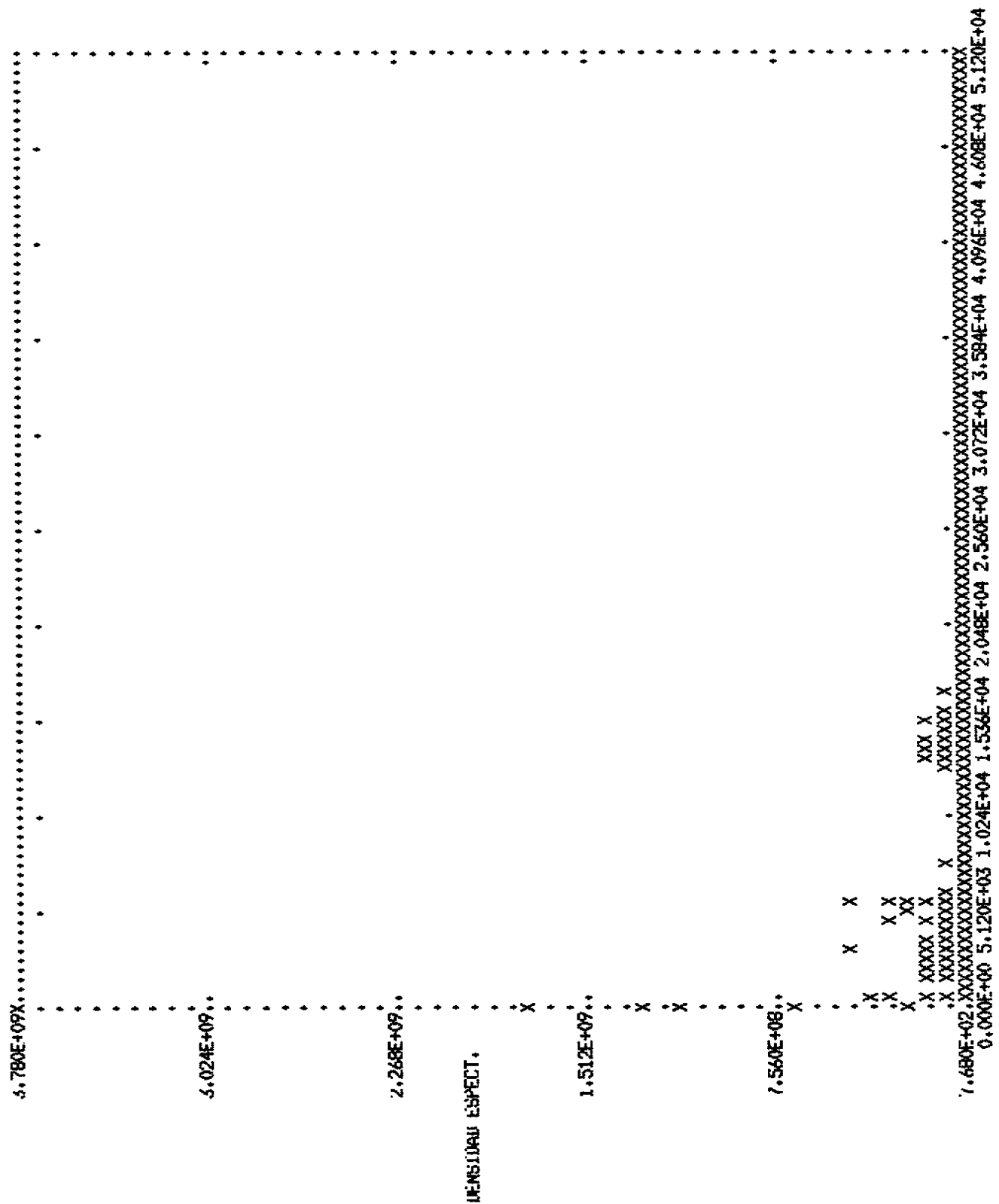
TIEMPOS FUERTA	I.GRAF.	I.FFT.	NPUNTOS	NRAMAS	I.ESC.	F.MAX
0.000 0.020	1	1	600	1	1	0.000

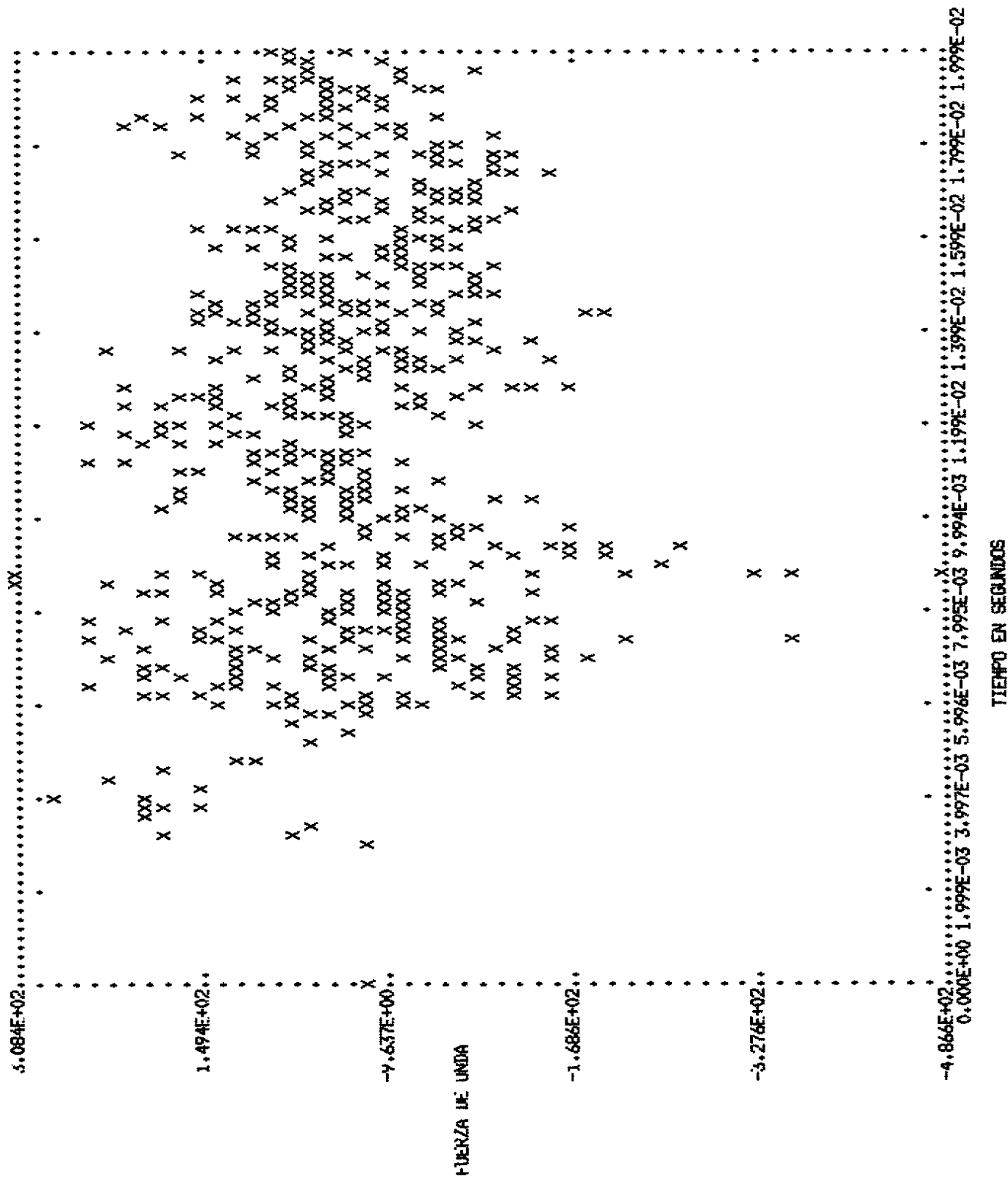
MAPA 1 lra ----- TRANOS NO.-----

2 5 1 2 3



TIEMPO EN SEGUNDOS





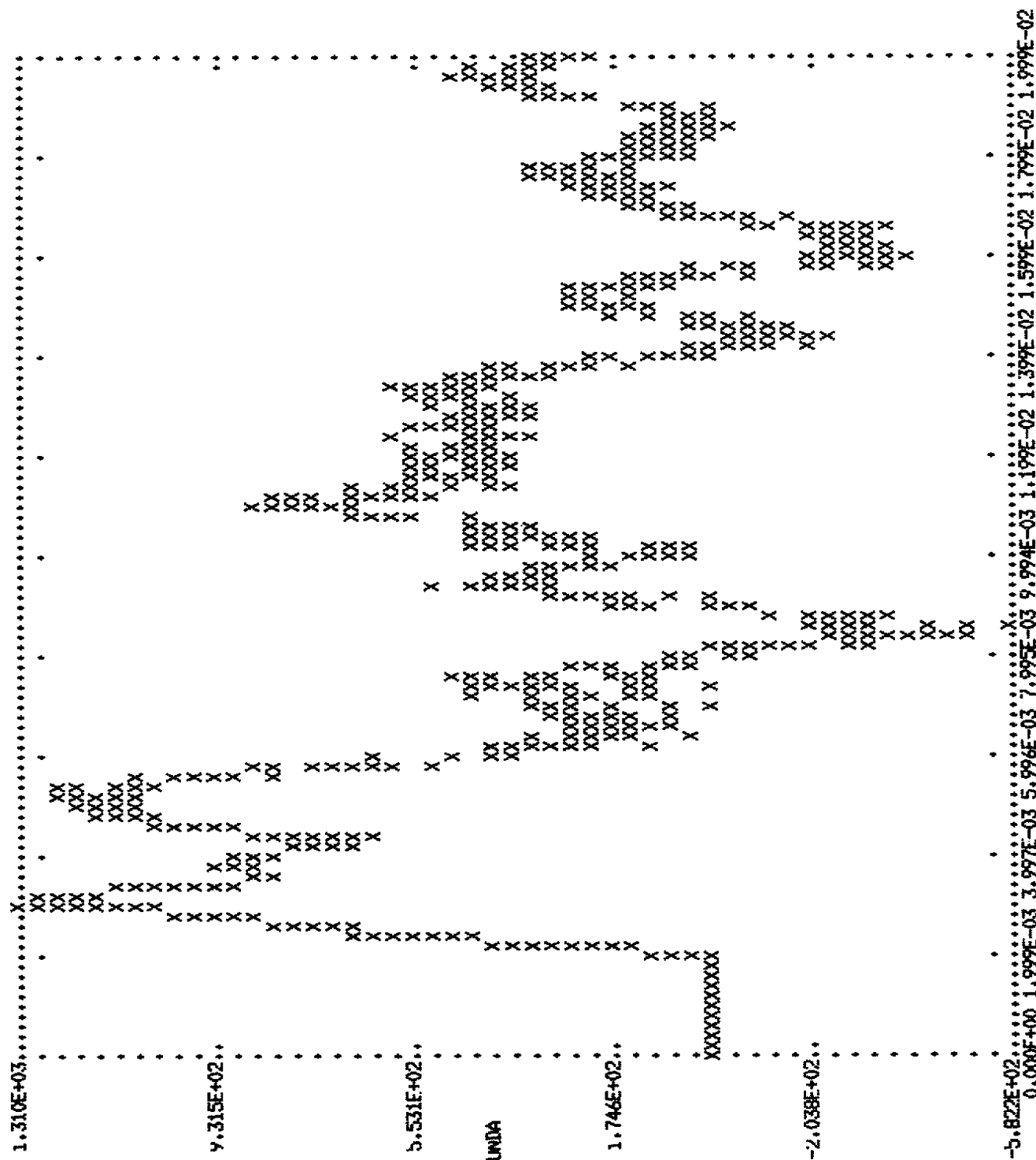
TIME FORCE	1	0.00000	0.	0.00306	0.	0.00308	4.
TIME FORCE	1	0.00317	183.	0.00319	188.	0.00329	75.
TIME FORCE	1	0.00344	56.	0.00355	196.	0.00370	153.
TIME FORCE	1	0.00382	195.	0.00388	180.	0.00399	271.
TIME FORCE	1	0.00408	203.	0.00424	153.	0.00435	233.
TIME FORCE	1	0.00450	178.	0.00464	187.	0.00477	107.
TIME FORCE	1	0.00488	124.	0.00517	55.	0.00547	25.
TIME FORCE	1	0.00568	62.	0.00578	2.	0.00581	41.
TIME FORCE	1	0.00583	0.	0.00585	2.	0.00587	60.
TIME FORCE	1	0.00589	51.	0.00591	-25.	0.00593	0.
TIME FORCE	1	0.00595	90.	0.00597	66.	0.00598	-29.
TIME FORCE	1	0.00600	16.	0.00602	133.	0.00604	85.
TIME FORCE	1	0.00606	-45.	0.00608	11.	0.00610	151.
TIME FORCE	1	0.00612	73.	0.00614	-84.	0.00616	3.
TIME FORCE	1	0.00617	175.	0.00619	73.	0.00621	-115.
TIME FORCE	1	0.00623	5.	0.00625	197.	0.00627	-28.
TIME FORCE	1	0.00629	-160.	0.00633	131.	0.00635	44.
TIME FORCE	1	0.00636	-80.	0.00638	113.	0.00640	250.
TIME FORCE	1	0.00644	-116.	0.00648	85.	0.00650	-118.
TIME FORCE	1	0.00652	-128.	0.00654	198.	0.00655	165.
TIME FORCE	1	0.00657	18.	0.00659	-5.	0.00661	120.
TIME FORCE	1	0.00663	-83.	0.00665	-158.	0.00667	110.
TIME FORCE	1	0.00669	33.	0.00671	58.	0.00673	178.
TIME FORCE	1	0.00674	125.	0.00676	-64.	0.00678	-88.
TIME FORCE	1	0.00680	37.	0.00684	-121.	0.00688	192.
TIME FORCE	1	0.00690	119.	0.00692	-74.	0.00693	92.
TIME FORCE	1	0.00695	53.	0.00697	-153.	0.00699	-186.
TIME FORCE	1	0.00701	-59.	0.00703	-22.	0.00705	-51.
TIME FORCE	1	0.00707	224.	0.00711	124.	0.00712	202.
TIME FORCE	1	0.00716	-149.	0.00718	-103.	0.00720	2.
TIME FORCE	1	0.00728	0.	0.00724	-57.	0.00726	97.
TIME FORCE	1	0.00733	39.	0.00730	53.	0.00731	142.
TIME FORCE	1	0.00739	-80.	0.00735	-50.	0.00737	239.
TIME FORCE	1	0.00745	19.	0.00741	-353.	0.00743	-32.
TIME FORCE	1	0.00750	133.	0.00747	-218.	0.00749	-121.
TIME FORCE	1	0.00756	153.	0.00752	119.	0.00754	-119.
TIME FORCE	1	0.00762	-52.	0.00764	6.	0.00769	-8.
TIME FORCE	1	0.00771	39.	0.00773	183.	0.00775	243.
TIME FORCE	1	0.00777	137.	0.00779	-26.	0.00783	-55.
TIME FORCE	1	0.00785	-155.	0.00788	-143.	0.00792	-14.
TIME FORCE	1	0.00796	-30.	0.00798	43.	0.00800	80.
TIME FORCE	1	0.00802	83.	0.00806	20.	0.00807	117.
TIME FORCE	1	0.00811	65.	0.00815	104.	0.00817	-15.
TIME FORCE	1	0.00819	-85.	0.00821	-30.	0.00823	-28.
TIME FORCE	1	0.00825	24.	0.00826	-25.	0.00828	81.
TIME FORCE	1	0.00830	134.	0.00832	-20.	0.00834	-131.
TIME FORCE	1	0.00836	-54.	0.00838	61.	0.00840	-30.
TIME FORCE	1	0.00842	-11.	0.00844	188.	0.00845	191.
TIME FORCE	1	0.00847	78.	0.00849	27.	0.00851	56.
TIME FORCE	1	0.00853	128.	0.00855	-14.	0.00857	-71.
TIME FORCE	1	0.00861	234.	0.00863	-16.	0.00864	-55.
TIME FORCE	1	0.00866	304.	0.00870	-482.	0.00872	-356.
TIME FORCE	1	0.00874	-135.	0.00876	-335.	0.00878	-218.
TIME FORCE	1	0.00880	305.	0.00882	300.	0.00883	181.
TIME FORCE	1	0.00887	151.	0.00889	48.	0.00893	-9.
TIME FORCE	1	0.00895	-16.	0.00897	83.	0.00899	15.
TIME FORCE	1	0.00901	-90.	0.00902	44.	0.00904	-35.
TIME FORCE	1	0.00906	-255.	0.00908	-252.	0.00910	-167.
TIME FORCE	1	0.00914	-200.	0.00916	50.	0.00918	85.
TIME FORCE	1	0.00920	52.	0.00923	86.	0.00927	-123.
TIME FORCE	1	0.00929	-16.	0.00931	-55.	0.00933	-196.

LINE FURCE	1	0.00958	77.	0.00959	-58.	0.00960	-58.
LINE FURCE	2	0.00960	0.	0.00959	0.	0.00960	-69.
LINE FURCE	2	0.00961	-22.	0.00965	-20.	0.00967	-75.
LINE FURCE	2	0.00975	-92.	0.00977	-164.	0.00980	17.
LINE FURCE	2	0.00982	-81.	0.00984	2.	0.00994	-4.
LINE FURCE	2	0.00996	-22.	0.00997	59.	0.01001	17.
LINE FURCE	2	0.01003	-11.	0.01005	28.	0.01007	62.
LINE FURCE	2	0.01009	-61.	0.01011	21.	0.01013	46.
LINE FURCE	2	0.01016	-46.	0.01018	-18.	0.01020	179.
LINE FURCE	2	0.01022	-26.	0.01024	16.	0.01028	59.
LINE FURCE	2	0.01030	164.	0.01032	74.	0.01034	-144.
LINE FURCE	2	0.01035	5.	0.01037	-99.	0.01039	70.
LINE FURCE	2	0.01043	29.	0.01047	13.	0.01049	18.
LINE FURCE	2	0.01051	63.	0.01054	1.	0.01056	171.
LINE FURCE	2	0.01058	-24.	0.01062	82.	0.01068	1.
LINE FURCE	2	0.01072	2.	0.01075	-62.	0.01079	38.
LINE FURCE	2	0.01083	100.	0.01085	49.	0.01087	31.
LINE FURCE	2	0.01091	90.	0.01094	0.	0.01096	163.
LINE FURCE	2	0.01102	2.	0.01104	151.	0.01106	-26.
LINE FURCE	2	0.01110	40.	0.01113	16.	0.01115	246.
LINE FURCE	2	0.01117	66.	0.01119	243.	0.01123	95.
LINE FURCE	2	0.01125	207.	0.01127	209.	0.01129	1.
LINE FURCE	2	0.01130	29.	0.01132	53.	0.01134	77.
LINE FURCE	2	0.01136	43.	0.01138	11.	0.01140	134.
LINE FURCE	2	0.01142	97.	0.01148	87.	0.01149	62.
LINE FURCE	2	0.01151	65.	0.01159	136.	0.01161	204.
LINE FURCE	2	0.01163	75.	0.01165	172.	0.01168	113.
LINE FURCE	2	0.01170	177.	0.01172	207.	0.01176	24.
LINE FURCE	2	0.01178	17.	0.01182	107.	0.01184	21.
LINE FURCE	2	0.01187	182.	0.01189	130.	0.01191	6.
LINE FURCE	2	0.01195	179.	0.01197	-94.	0.01199	23.
LINE FURCE	2	0.01201	288.	0.01203	158.	0.01205	20.
LINE FURCE	2	0.01206	188.	0.01208	242.	0.01210	54.
LINE FURCE	2	0.01212	36.	0.01214	112.	0.01216	-36.
LINE FURCE	2	0.01225	73.	0.01227	-62.	0.01229	81.
LINE FURCE	2	0.01231	140.	0.01233	65.	0.01235	179.
LINE FURCE	2	0.01237	183.	0.01239	219.	0.01241	-41.
LINE FURCE	2	0.01243	72.	0.01246	-22.	0.01250	167.
LINE FURCE	2	0.01252	-36.	0.01256	151.	0.01258	-68.
LINE FURCE	2	0.01260	67.	0.01263	140.	0.01267	37.
LINE FURCE	2	0.01269	32.	0.01271	210.	0.01273	134.
LINE FURCE	2	0.01275	-28.	0.01277	220.	0.01279	52.
LINE FURCE	2	0.01281	-121.	0.01282	-132.	0.01284	46.
LINE FURCE	2	0.01286	-82.	0.01288	-169.	0.01290	5.
LINE FURCE	2	0.01292	95.	0.01300	70.	0.01305	1.
LINE FURCE	2	0.01307	95.	0.01309	72.	0.01311	-39.
LINE FURCE	2	0.01313	64.	0.01319	-57.	0.01320	5.
LINE FURCE	2	0.01322	23.	0.01324	-24.	0.01326	-66.
LINE FURCE	2	0.01330	126.	0.01332	-19.	0.01334	33.
LINE FURCE	2	0.01336	-19.	0.01339	-153.	0.01343	-4.
LINE FURCE	2	0.01347	-37.	0.01349	13.	0.01353	88.
LINE FURCE	2	0.01353	-28.	0.01357	-112.	0.01358	18.
LINE FURCE	2	0.01360	172.	0.01362	54.	0.01364	-132.
LINE FURCE	2	0.01366	225.	0.01368	113.	0.01370	-70.
LINE FURCE	2	0.01372	-88.	0.01374	19.	0.01377	-82.
LINE FURCE	2	0.01379	49.	0.01381	43.	0.01387	66.
LINE FURCE	2	0.01391	-3.	0.01393	2.	0.01395	52.
LINE FURCE	2	0.01396	31.	0.01398	84.	0.01400	-3.
LINE FURCE	2	0.01402	-40.	0.01404	-72.	0.01406	154.
LINE FURCE	2	0.01408	14.	0.01410	-91.	0.01414	93.
LINE FURCE	2	0.01415	122.	0.01417	38.	0.01419	-16.
LINE FURCE	2	0.01421	96.	0.01423	39.	0.01427	30.
LINE FURCE	2	0.01431	96.	0.01433	2.	0.01434	

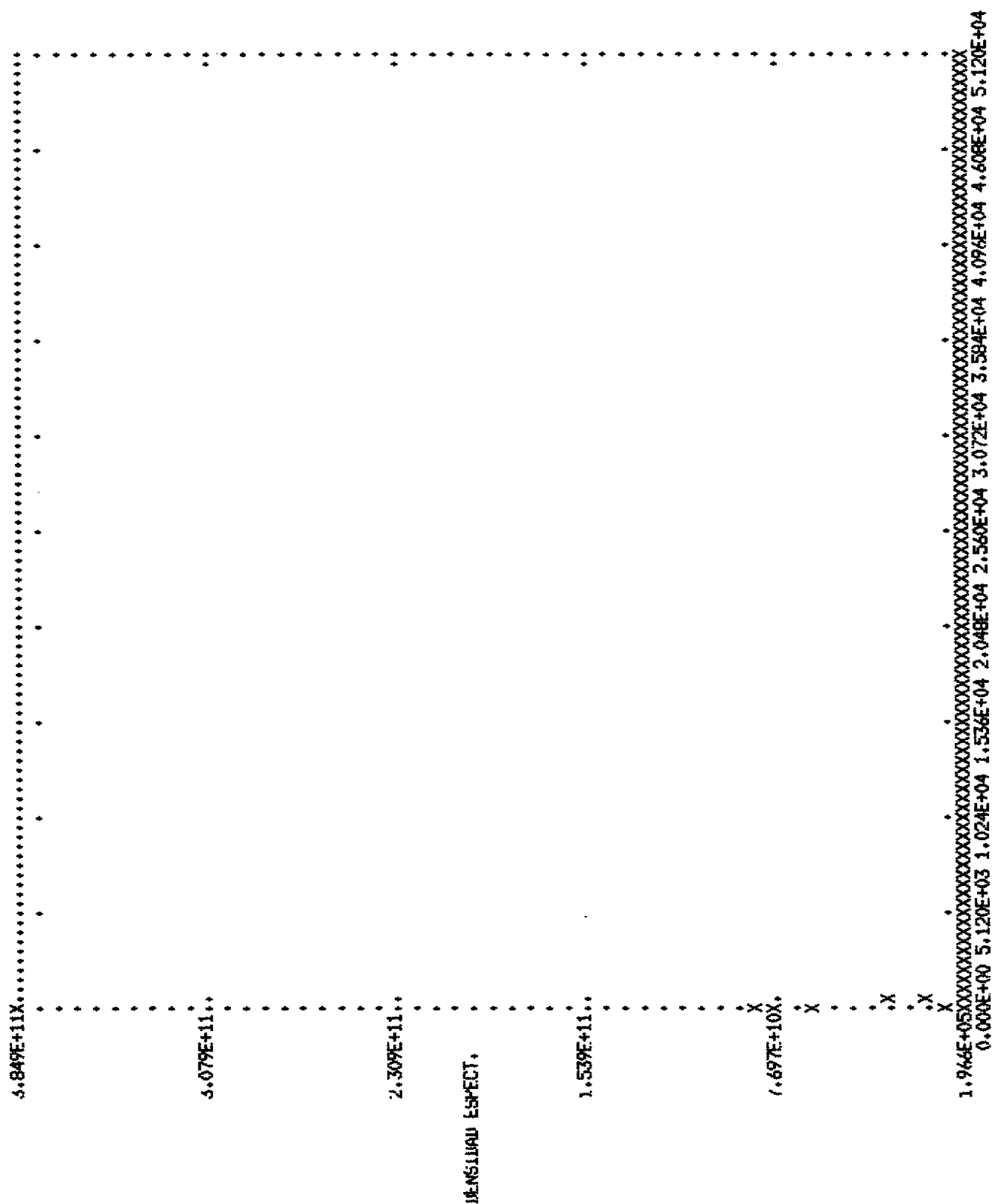
LINE FURCE	0.01459	32.	0.01461	1.	0.01463	84.
LINE FURCE	0.01465	107.	0.01469	-51.		
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LINE FURCE	0.01471	65.	0.01472	77.	0.01474	44.
LINE FURCE	0.01476	61.	0.01478	146.	0.01480	91.
LINE FURCE	0.01482	-83.	0.01484	-97.	0.01486	-67.
LINE FURCE	0.01488	-101.	0.01490	-93.	0.01493	69.
LINE FURCE	0.01497	-37.	0.01499	51.	0.01501	31.
LINE FURCE	0.01505	-95.	0.01507	-11.	0.01509	-16.
LINE FURCE	0.01510	-84.	0.01512	-47.	0.01514	50.
LINE FURCE	0.01516	44.	0.01518	-38.	0.01522	37.
LINE FURCE	0.01526	-1.	0.01528	65.	0.01529	89.
LINE FURCE	0.01531	-25.	0.01533	-71.	0.01537	-44.
LINE FURCE	0.01539	-104.	0.01543	67.	0.01548	-56.
LINE FURCE	0.01550	26.	0.01552	-5.	0.01560	28.
LINE FURCE	0.01564	-19.	0.01566	-14.	0.01567	42.
LINE FURCE	0.01571	-54.	0.01573	-69.	0.01575	-4.
LINE FURCE	0.01579	-18.	0.01583	127.	0.01586	73.
LINE FURCE	0.01588	109.	0.01592	33.	0.01594	-60.
LINE FURCE	0.01596	-34.	0.01598	-60.	0.01602	-50.
LINE FURCE	0.01604	-21.	0.01605	69.	0.01609	-83.
LINE FURCE	0.01613	-30.	0.01615	-89.	0.01617	-71.
LINE FURCE	0.01619	89.	0.01621	145.	0.01624	95.
LINE FURCE	0.01626	119.	0.01628	93.	0.01630	0.
LINE FURCE	0.01634	21.	0.01638	-84.	0.01640	-107.
LINE FURCE	0.01642	-59.	0.01645	-48.	0.01651	54.
LINE FURCE	0.01655	-16.	0.01657	45.	0.01662	-115.
LINE FURCE	0.01664	-46.	0.01668	-43.	0.01672	39.
LINE FURCE	0.01674	24.	0.01676	-54.	0.01678	-83.
LINE FURCE	0.01680	-80.	0.01681	-15.	0.01685	-61.
LINE FURCE	0.01687	81.	0.01689	68.	0.01691	-85.
LINE FURCE	0.01693	-56.	0.01695	28.	0.01697	-67.
LINE FURCE	0.01699	-95.	0.01700	10.	0.01704	-48.
LINE FURCE	0.01706	1.	0.01710	-88.	0.01712	-82.
LINE FURCE	0.01714	-38.	0.01716	-82.	0.01719	48.
LINE FURCE	0.01731	-104.	0.01735	34.	0.01737	36.
LINE FURCE	0.01738	-13.	0.01740	59.	0.01742	-14.
LINE FURCE	0.01744	-124.	0.01746	-145.	0.01752	-103.
LINE FURCE	0.01754	-1.	0.01756	45.	0.01759	12.
LINE FURCE	0.01761	-59.	0.01765	16.	0.01767	-66.
LINE FURCE	0.01769	25.	0.01771	160.	0.01773	103.
LINE FURCE	0.01775	-60.	0.01776	61.	0.01778	50.
LINE FURCE	0.01780	-106.	0.01782	-123.	0.01784	-45.
LINE FURCE	0.01786	-15.	0.01788	-42.	0.01792	109.
LINE FURCE	0.01794	47.	0.01801	-60.	0.01803	-73.
LINE FURCE	0.01805	14.	0.01811	43.	0.01814	-29.
LINE FURCE	0.01818	4.	0.01820	-101.	0.01824	121.
LINE FURCE	0.01828	88.	0.01830	186.	0.01832	215.
LINE FURCE	0.01833	30.	0.01835	-3.	0.01837	23.
LINE FURCE	0.01839	-22.	0.01843	-24.	0.01847	67.
LINE FURCE	0.01849	23.	0.01851	-65.	0.01854	39.
LINE FURCE	0.01856	-61.	0.01858	-53.	0.01860	109.
LINE FURCE	0.01862	190.	0.01866	53.	0.01868	153.
LINE FURCE	0.01871	22.	0.01873	27.	0.01875	79.
LINE FURCE	0.01877	91.	0.01879	21.	0.01881	44.
LINE FURCE	0.01885	-14.	0.01887	46.	0.01890	7.
LINE FURCE	0.01894	110.	0.01896	35.	0.01898	31.
LINE FURCE	0.01900	150.	0.01902	87.	0.01904	-14.
LINE FURCE	0.01906	-11.	0.01908	43.	0.01909	-37.
LINE FURCE	0.01911	-61.	0.01913	16.	0.01915	8.
LINE FURCE	0.01917	42.	0.01921	5.	0.01925	64.
LINE FURCE	0.01928	22.	0.01930	84.	0.01934	38.
LINE FURCE	0.01936	124.	0.01940	73.	0.01942	88.

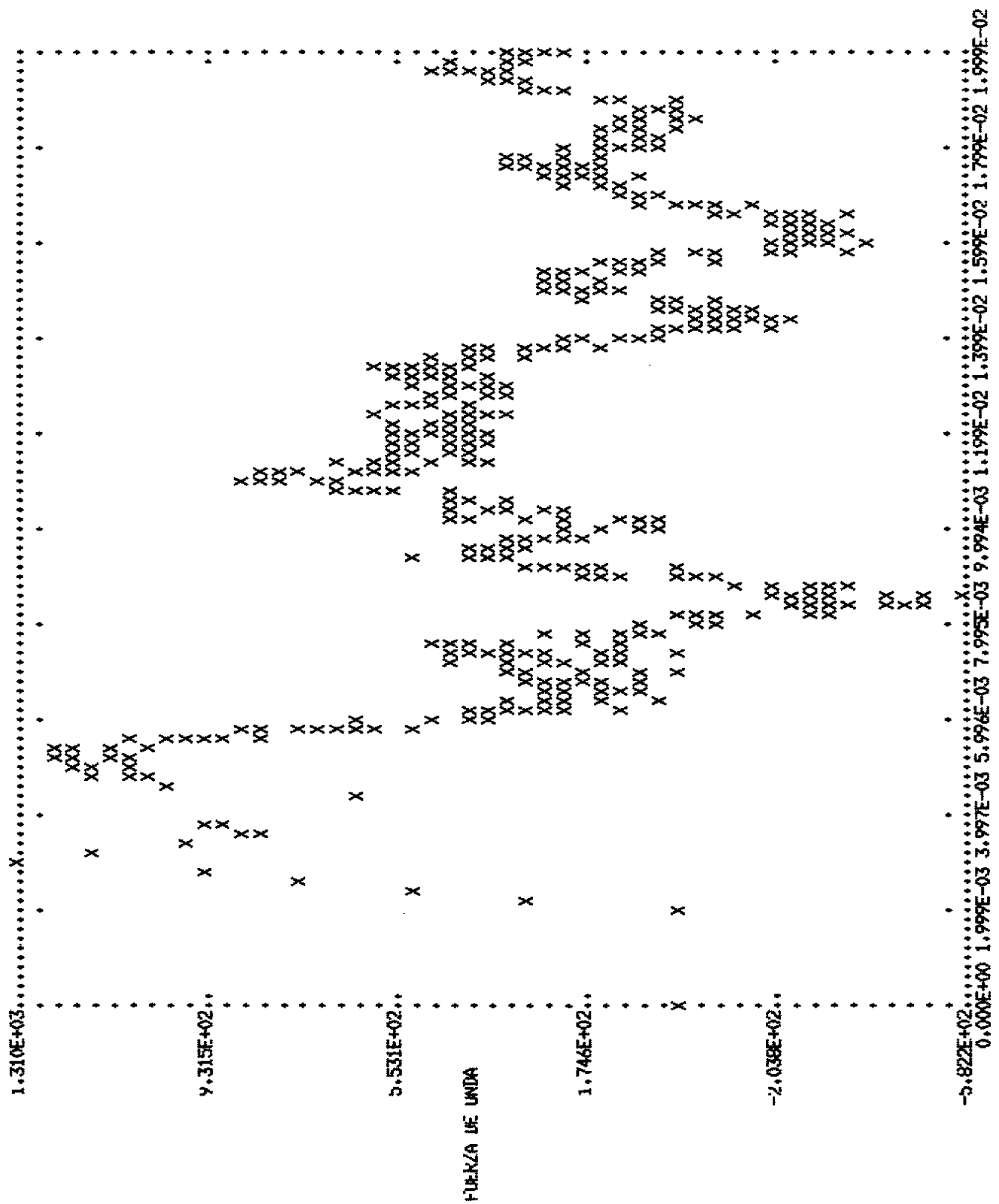
CITE: FURCE 3 0.01997 80. 0.01999 68.

NU. DE PUNTOS:594
EL ERROR EN LA REDUCCION ES MENOR DE: 0.181E+02

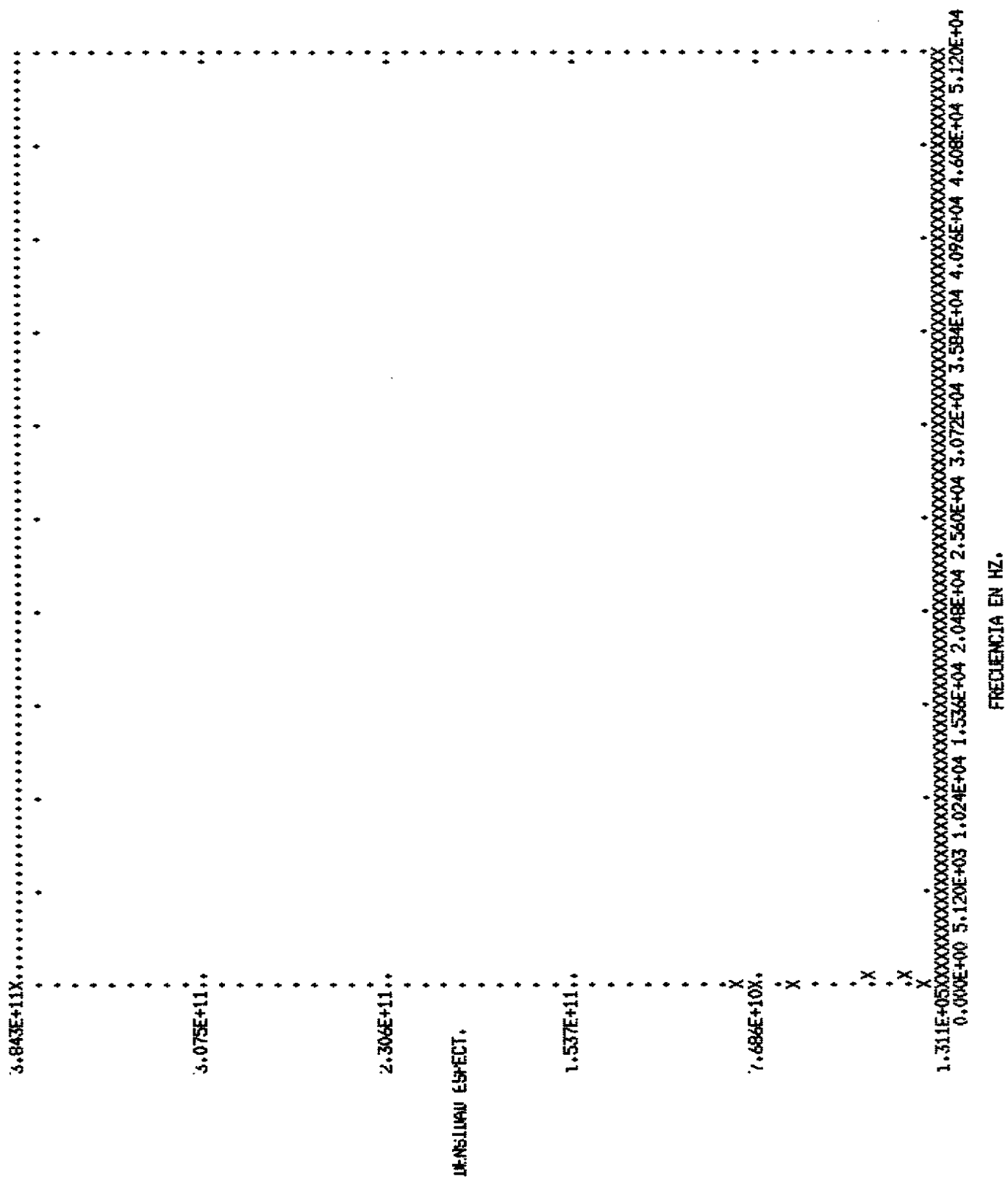


TIEMPO EN SEGUNDOS





TIEMPO EN SEGUNDOS



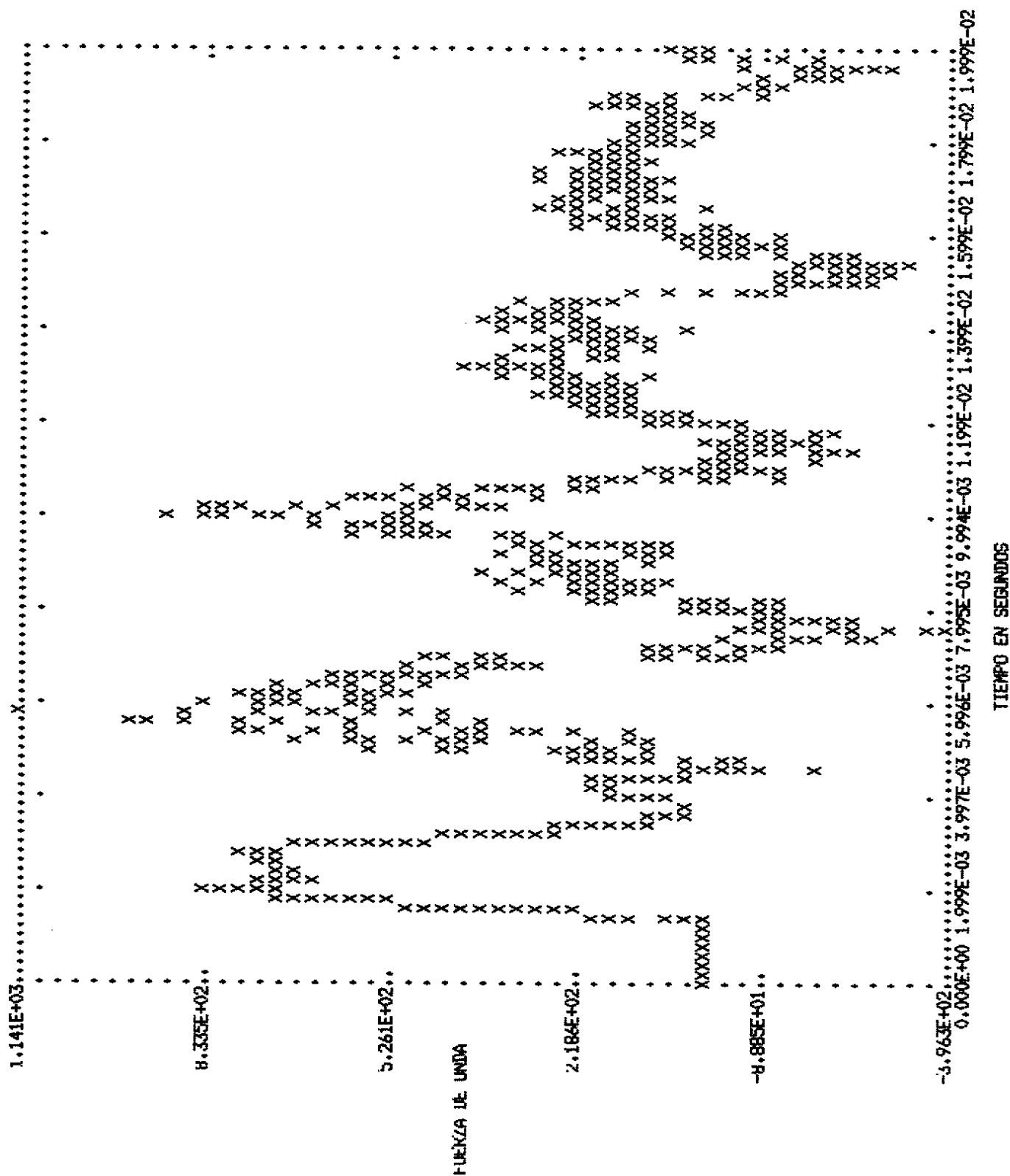
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TIME FURCE	4	0,00308	1297,	0,00329	1154,	0,00342	967,
TIME FURCE	4	0,00355	821,	0,00365	867,	0,00382	880,
TIME FURCE	4	0,00388	920,	0,00433	647,	0,00460	1006,
TIME FURCE	4	0,00473	1042,	0,00477	1094,	0,00481	1072,
TIME FURCE	4	0,00484	1144,	0,00488	1084,	0,00492	1159,
TIME FURCE	4	0,00496	1087,	0,00500	1181,	0,00503	1094,
TIME FURCE	4	0,00507	1201,	0,00511	1100,	0,00515	1227,
TIME FURCE	4	0,00519	1115,	0,00521	1198,	0,00524	1120,
TIME FURCE	4	0,00528	1122,	0,00530	1216,	0,00534	1131,
TIME FURCE	4	0,00536	1234,	0,00538	1205,	0,00540	1126,
TIME FURCE	4	0,00547	1045,	0,00549	1133,	0,00551	1082,
TIME FURCE	4	0,00553	985,	0,00560	902,	0,00562	990,
TIME FURCE	4	0,00564	931,	0,00566	823,	0,00568	916,
TIME FURCE	4	0,00570	860,	0,00572	737,	0,00574	703,
TIME FURCE	4	0,00576	698,	0,00578	803,	0,00579	719,
TIME FURCE	4	0,00581	592,	0,00583	734,	0,00585	679,
TIME FURCE	4	0,00587	515,	0,00589	633,	0,00591	620,
TIME FURCE	4	0,00593	487,	0,00595	408,	0,00597	383,
TIME FURCE	4	0,00598	412,	0,00600	393,	0,00602	459,
TIME FURCE	4	0,00606	346,	0,00608	476,	0,00612	234,
TIME FURCE	4	0,00614	294,	0,00616	265,	0,00617	322,
TIME FURCE	4	0,00623	207,	0,00625	113,	0,00627	402,
TIME FURCE	4	0,00629	373,	0,00631	197,	0,00633	341,
TIME FURCE	4	0,00635	251,	0,00636	221,	0,00638	146,
TIME FURCE	4	0,00640	33,	0,00642	209,	0,00644	234,
TIME FURCE	4	0,00646	153,	0,00650	239,	0,00652	219,
TIME FURCE	4	0,00654	47,	0,00655	110,	0,00657	228,
TIME FURCE	4	0,00659	220,	0,00661	130,	0,00665	211,
TIME FURCE	4	0,00667	84,	0,00669	217,	0,00671	274,
TIME FURCE	4	0,00673	167,	0,00676	233,	0,00680	231,
TIME FURCE	4	0,00682	136,	0,00684	194,	0,00686	198,
TIME FURCE	4	0,00688	48,	0,00690	185,	0,00692	192,
TIME FURCE	4	0,00693	-33,	0,00695	172,	0,00701	317,
TIME FURCE	4	0,00703	271,	0,00705	289,	0,00707	62,
TIME FURCE	4	0,00711	250,	0,00712	113,	0,00714	264,
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TIME FURCE	4	0,00722	127,	0,00724	195,	0,00726	328,
TIME FURCE	4	0,00730	309,	0,00731	0,	0,00733	154,
TIME FURCE	4	0,00735	410,	0,00737	105,	0,00739	242,
TIME FURCE	4	0,00741	429,	0,00743	287,	0,00745	304,
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TIME FURCE	4	0,00752	157,	0,00754	438,	0,00756	478,
TIME FURCE	4	0,00758	324,	0,00760	469,	0,00762	479,
TIME FURCE	4	0,00766	107,	0,00769	184,	0,00775	7,
TIME FURCE	4	0,00777	55,	0,00779	241,	0,00783	167,
TIME FURCE	4	0,00785	173,	0,00787	102,	0,00794	44,
TIME FURCE	4	0,00796	78,	0,00800	-45,	0,00804	-84,
TIME FURCE	4	0,00809	-104,	0,00811	-15,	0,00813	-43,
TIME FURCE	4	0,00817	-171,	0,00819	-153,	0,00821	-75,
TIME FURCE	4	0,00825	-335,	0,00826	-180,	0,00828	-288,
TIME FURCE	4	0,00830	-294,	0,00832	-242,	0,00834	-369,
TIME FURCE	4	0,00836	-334,	0,00840	-460,	0,00842	-413,
TIME FURCE	4	0,00844	-496,	0,00845	-488,	0,00847	-330,
TIME FURCE	4	0,00851	-434,	0,00853	-433,	0,00855	-216,
TIME FURCE	4	0,00857	-270,	0,00859	-576,	0,00863	-315,
TIME FURCE	4	0,00864	-498,	0,00866	-569,	0,00868	-248,
TIME FURCE	4	0,00870	-131,	0,00874	-305,	0,00876	-197,
TIME FURCE	4	0,00878	-142,	0,00882	-326,	0,00883	-339,
TIME FURCE	4	0,00885	-273,	0,00887	-308,	0,00891	-75,
TIME FURCE	4	0,00893	-58,	0,00895	0,	0,00897	-47,

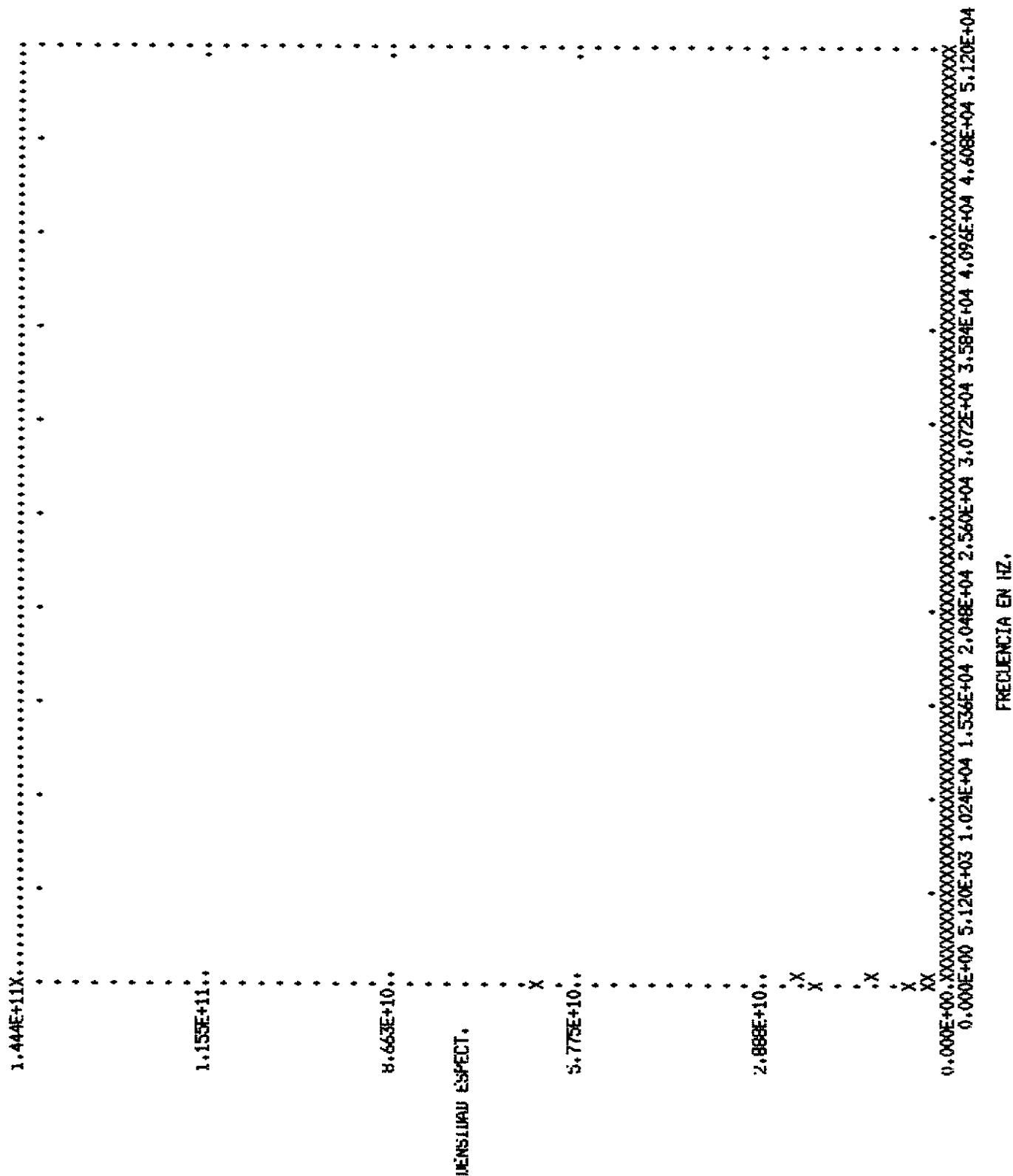
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TIME FURCE	5	0.00935	339.	0.00937	351.	0.00940	531.
TIME FURCE	5	0.00942	388.	0.00944	336.	0.00946	413.
TIME FURCE	5	0.00948	413.	0.00950	403.	0.00952	344.
TIME FURCE	5	0.00956	368.	0.00958	292.	0.00961	381.
TIME FURCE	5	0.00969	294.	0.00973	313.	0.00975	236.
TIME FURCE	5	0.00977	230.	0.00978	323.	0.00980	224.
TIME FURCE	5	0.00982	197.	0.00984	279.	0.00988	162.
TIME FURCE	5	0.00990	197.	0.00992	145.	0.00994	11.
TIME FURCE	5	0.00996	71.	0.00997	42.	0.01001	153.
TIME FURCE	5	0.01005	5.	0.01007	43.	0.01009	130.
TIME FURCE	5	0.01011	31.	0.01013	60.	0.01015	204.
TIME FURCE	5	0.01016	118.	0.01018	207.	0.01020	396.
TIME FURCE	5	0.01022	435.	0.01026	273.	0.01030	222.
TIME FURCE	5	0.01032	330.	0.01034	332.	0.01035	269.
TIME FURCE	5	0.01041	357.	0.01045	354.	0.01047	444.
TIME FURCE	5	0.01051	333.	0.01054	451.	0.01056	412.
TIME FURCE	5	0.01060	438.	0.01064	395.	0.01066	445.
TIME FURCE	5	0.01068	423.	0.01070	443.	0.01072	571.
TIME FURCE	5	0.01073	565.	0.01077	670.	0.01079	583.
TIME FURCE	5	0.01081	630.	0.01089	661.	0.01091	802.
TIME FURCE	5	0.01092	704.	0.01094	682.	0.01096	863.
TIME FURCE	5	0.01100	768.	0.01102	818.	0.01104	694.
TIME FURCE	5	0.01110	773.	0.01111	784.	0.01113	751.
TIME FURCE	5	0.01115	805.	0.01119	576.	0.01121	646.
TIME FURCE	5	0.01123	521.	0.01127	526.	0.01129	568.
TIME FURCE	5	0.01130	683.	0.01132	561.	0.01134	492.
TIME FURCE	5	0.01136	559.	0.01138	585.	0.01142	396.
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TIME FURCE	5	0.01155	517.	0.01157	395.	0.01161	511.
TIME FURCE	5	0.01163	450.	0.01165	453.	0.01167	556.
TIME FURCE	5	0.01170	457.	0.01172	566.	0.01174	520.
TIME FURCE	5	0.01176	383.	0.01178	497.	0.01180	423.
TIME FURCE	5	0.01182	431.	0.01184	559.	0.01186	380.
TIME FURCE	5	0.01189	485.	0.01191	495.	0.01193	489.
TIME FURCE	5	0.01195	392.	0.01197	563.	0.01199	528.
TIME FURCE	5	0.01201	373.	0.01203	437.	0.01206	427.
TIME FURCE	5	0.01212	492.	0.01216	409.	0.01218	460.
TIME FURCE	5	0.01220	447.	0.01224	557.	0.01227	534.
TIME FURCE	5	0.01229	455.	0.01233	431.	0.01235	321.
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TIME FURCE	5	0.01244	358.	0.01246	446.	0.01248	592.
TIME FURCE	5	0.01250	547.	0.01252	399.	0.01256	468.
TIME FURCE	5	0.01258	415.	0.01260	494.	0.01262	485.
TIME FURCE	5	0.01263	402.	0.01265	517.	0.01267	504.
TIME FURCE	5	0.01269	395.	0.01271	340.	0.01273	439.
TIME FURCE	5	0.01275	459.	0.01277	309.	0.01279	341.
TIME FURCE	5	0.01281	456.	0.01284	363.	0.01286	363.
TIME FURCE	5	0.01288	478.	0.01290	517.	0.01292	353.
TIME FURCE	5	0.01296	423.	0.01298	309.	0.01300	373.
TIME FURCE	5	0.01303	374.	0.01305	428.	0.01307	394.
TIME FURCE	5	0.01311	484.	0.01317	427.	0.01319	550.
TIME FURCE	5	0.01320	504.	0.01322	356.	0.01324	491.
TIME FURCE	5	0.01326	453.	0.01328	352.	0.01330	424.
TIME FURCE	5	0.01332	570.	0.01334	601.	0.01338	456.
TIME FURCE	5	0.01339	520.	0.01341	535.	0.01345	393.
TIME FURCE	5	0.01349	490.	0.01351	397.	0.01353	348.
TIME FURCE	5	0.01355	384.	0.01357	475.	0.01358	420.
TIME FURCE	5	0.01362	400.	0.01364	302.	0.01368	399.
TIME FURCE	5	0.01370	386.	0.01372	417.	0.01374	358.
TIME FURCE	5	0.01377	359.	0.01379	219.	0.01381	284.
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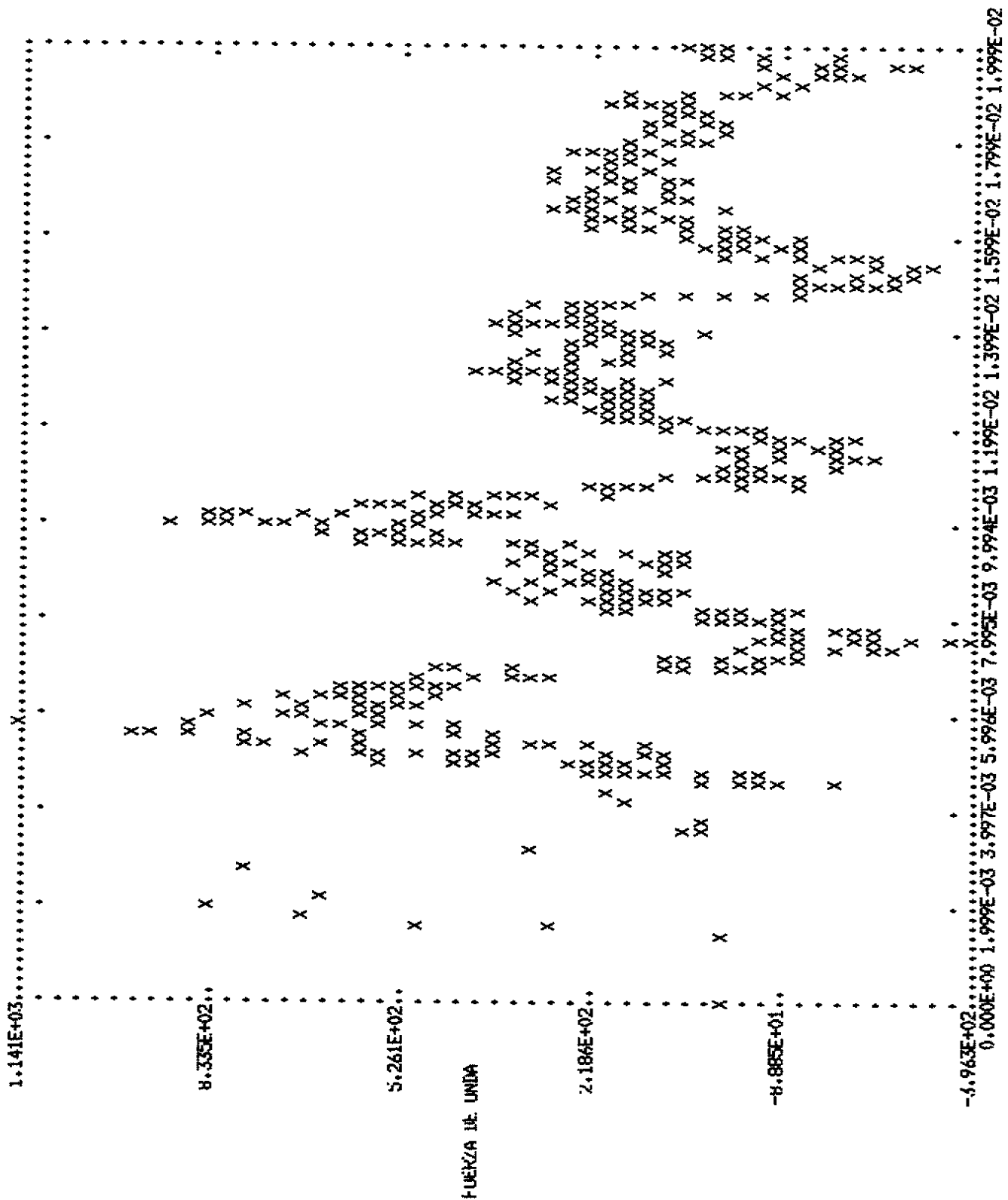
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LINE FURCE	5	0.01433	-81.	0.01434	-176.		
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LINE FURCE	6	0.01438	-233.	0.01440	-115.	0.01442	-78.
LINE FURCE	6	0.01444	-217.	0.01446	-93.	0.01448	-41.
LINE FURCE	6	0.01450	-134.	0.01452	-62.	0.01453	-53.
LINE FURCE	6	0.01457	-156.	0.01459	-80.	0.01461	-47.
LINE FURCE	6	0.01463	-99.	0.01465	-106.	0.01467	-17.
LINE FURCE	6	0.01469	25.	0.01472	-31.	0.01474	-100.
LINE FURCE	6	0.01478	13.	0.01480	15.	0.01484	190.
LINE FURCE	6	0.01486	163.	0.01491	182.	0.01493	82.
LINE FURCE	6	0.01495	103.	0.01497	198.	0.01499	184.
LINE FURCE	6	0.01501	259.	0.01503	238.	0.01505	116.
LINE FURCE	6	0.01507	135.	0.01509	226.	0.01512	211.
LINE FURCE	6	0.01514	149.	0.01516	138.	0.01518	269.
LINE FURCE	6	0.01520	245.	0.01522	199.	0.01524	264.
LINE FURCE	6	0.01526	221.	0.01528	122.	0.01531	258.
LINE FURCE	6	0.01537	99.	0.01539	188.	0.01541	223.
LINE FURCE	6	0.01545	78.	0.01547	102.	0.01548	211.
LINE FURCE	6	0.01550	96.	0.01554	141.	0.01556	16.
LINE FURCE	6	0.01558	9.	0.01560	87.	0.01564	45.
LINE FURCE	6	0.01567	-77.	0.01569	6.	0.01571	-57.
LINE FURCE	6	0.01579	-107.	0.01581	-219.	0.01585	-234.
LINE FURCE	6	0.01586	-343.	0.01590	-296.	0.01592	-314.
LINE FURCE	6	0.01594	-262.	0.01596	-275.	0.01598	-206.
LINE FURCE	6	0.01600	-245.	0.01602	-238.	0.01604	-258.
LINE FURCE	6	0.01605	-411.	0.01609	-250.	0.01615	-294.
LINE FURCE	6	0.01619	-260.	0.01621	-346.	0.01623	-334.
LINE FURCE	6	0.01624	-268.	0.01626	-369.	0.01628	-350.
LINE FURCE	6	0.01630	-232.	0.01632	-204.	0.01634	-274.
LINE FURCE	6	0.01636	-194.	0.01640	-272.	0.01642	-246.
LINE FURCE	6	0.01643	-308.	0.01645	-328.	0.01647	-233.
LINE FURCE	6	0.01649	-280.	0.01653	-252.	0.01657	-355.
LINE FURCE	6	0.01661	-121.	0.01664	-196.	0.01666	-81.
LINE FURCE	6	0.01668	-121.	0.01672	-104.	0.01674	-169.
LINE FURCE	6	0.01676	-18.	0.01680	-64.	0.01685	68.
LINE FURCE	6	0.01689	8.	0.01691	98.	0.01699	61.
LINE FURCE	6	0.01712	138.	0.01716	86.	0.01718	93.
LINE FURCE	6	0.01719	155.	0.01725	216.	0.01727	194.
LINE FURCE	6	0.01729	233.	0.01731	228.	0.01733	121.
LINE FURCE	6	0.01737	125.	0.01740	53.	0.01742	190.
LINE FURCE	6	0.01744	241.	0.01746	185.	0.01750	183.
LINE FURCE	6	0.01754	244.	0.01756	138.	0.01759	295.
LINE FURCE	6	0.01765	204.	0.01767	303.	0.01769	324.
LINE FURCE	6	0.01771	212.	0.01775	272.	0.01778	280.
LINE FURCE	6	0.01780	223.	0.01782	319.	0.01786	152.
LINE FURCE	6	0.01788	272.	0.01792	130.	0.01794	204.
LINE FURCE	6	0.01803	131.	0.01805	68.	0.01807	86.
LINE FURCE	6	0.01809	12.	0.01811	28.	0.01813	140.
LINE FURCE	6	0.01816	61.	0.01820	124.	0.01826	17.
LINE FURCE	6	0.01828	61.	0.01830	50.	0.01832	-15.
LINE FURCE	6	0.01835	100.	0.01841	121.	0.01843	117.
LINE FURCE	6	0.01849	4.	0.01854	89.	0.01862	-11.
LINE FURCE	6	0.01866	62.	0.01868	-62.	0.01871	41.
LINE FURCE	6	0.01873	-4.	0.01879	51.	0.01881	0.
LINE FURCE	6	0.01885	7.	0.01887	-30.	0.01889	70.
LINE FURCE	6	0.01892	-4.	0.01894	102.	0.01896	127.
LINE FURCE	6	0.01900	83.	0.01906	145.	0.01908	134.
LINE FURCE	6	0.01909	217.	0.01911	256.	0.01915	197.
LINE FURCE	6	0.01917	214.	0.01919	284.	0.01923	269.
LINE FURCE	6	0.01930	336.	0.01932	302.	0.01934	381.
LINE FURCE	6	0.01938	310.	0.01940	327.	0.01944	299.
LINE FURCE	6	0.01946	365.	0.01951	467.	0.01953	420.

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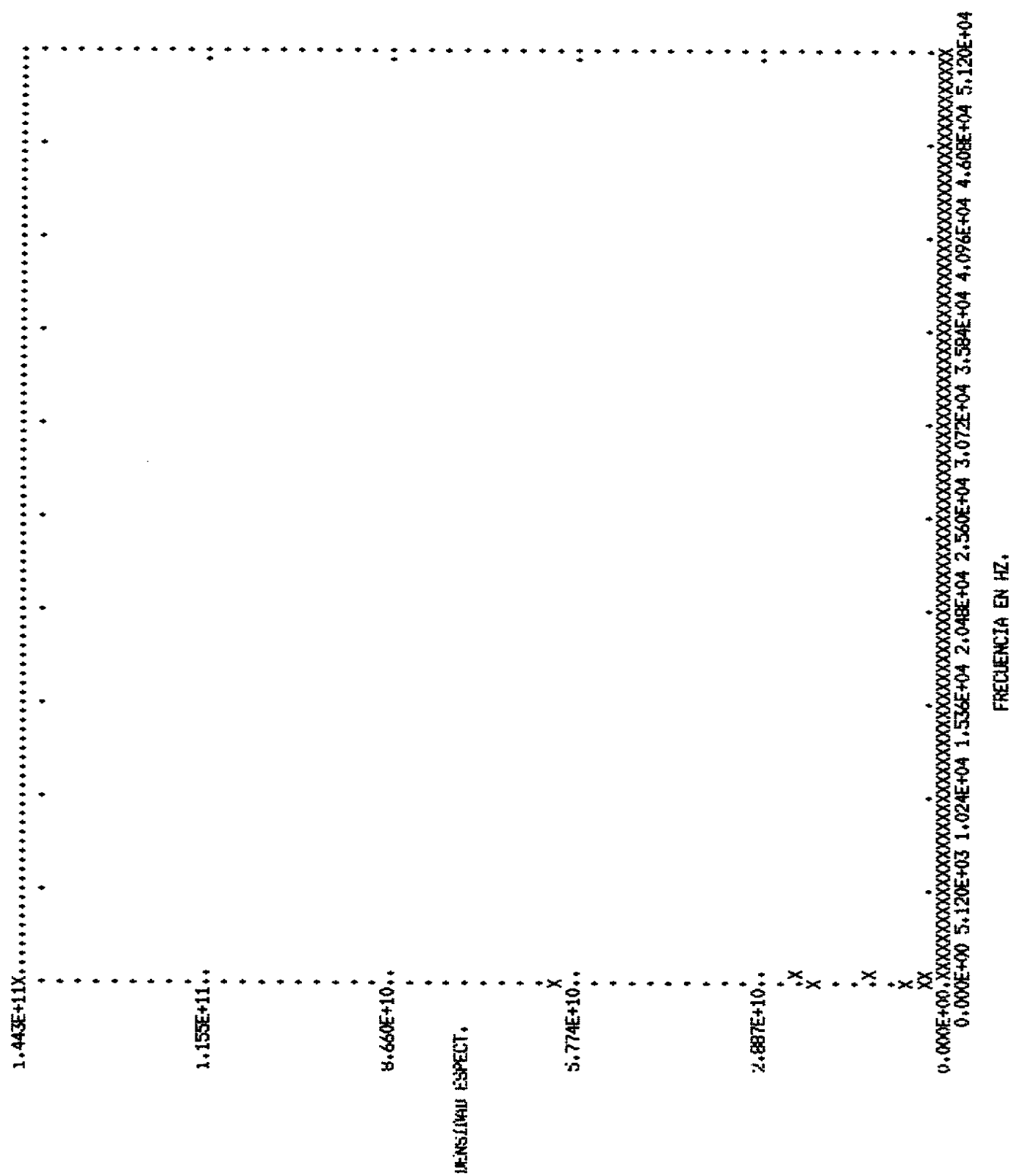
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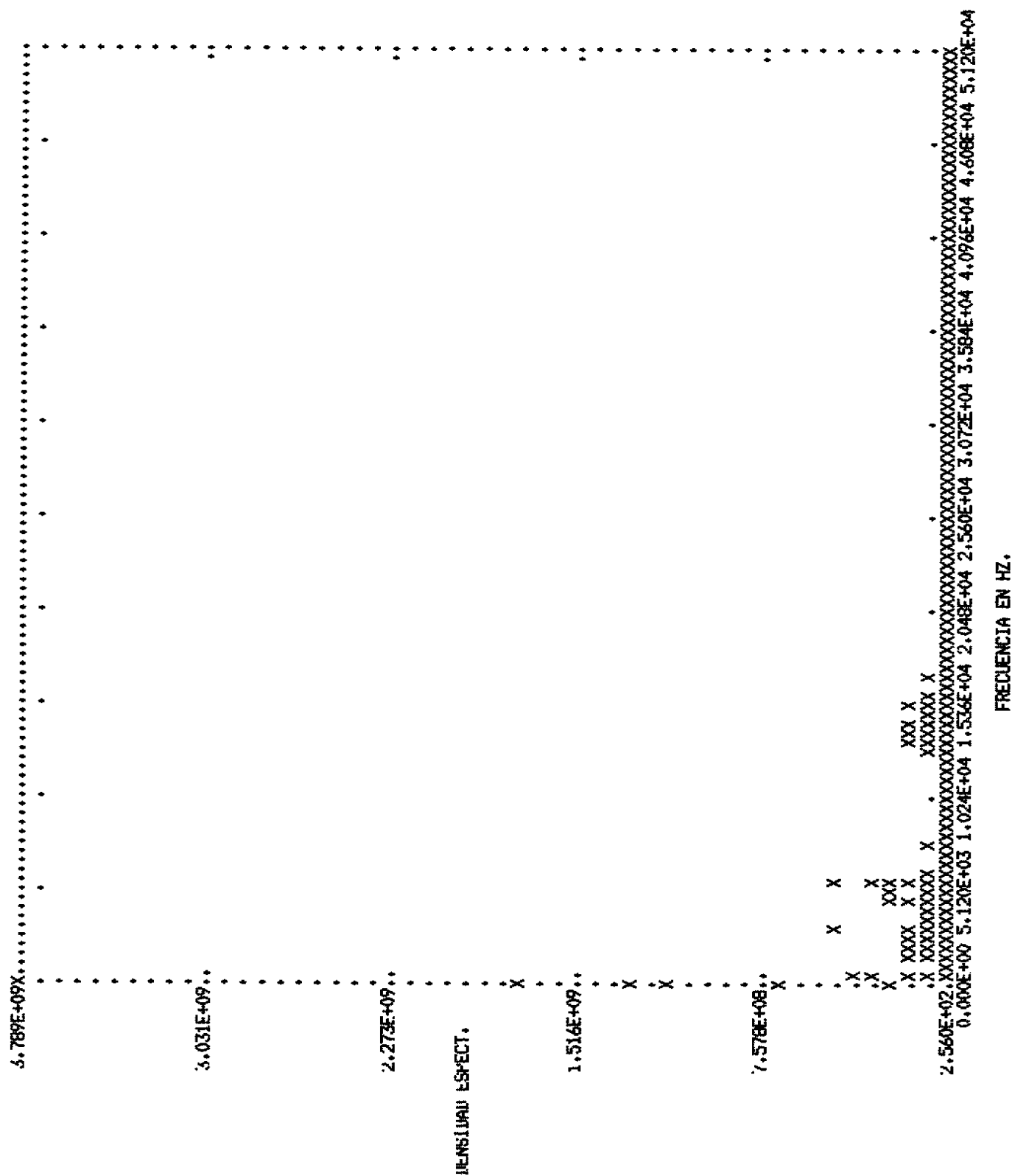


TIEMPO EN SEGUNDOS



LINE FURDE	7	0.00000	0.	0.00139	6.	0.00154	284.
LINE FURDE	7	0.00169	504.	0.00186	691.	0.00203	829.
LINE FURDE	7	0.00218	656.	0.00283	767.	0.00283	305.
LINE FURDE	7	0.00357	57.	0.00365	25.	0.00388	38.
LINE FURDE	7	0.00412	167.	0.00431	188.	0.00460	-54.
LINE FURDE	7	0.00462	-169.	0.00464	41.	0.00465	-102.
LINE FURDE	7	0.00467	37.	0.00469	-39.	0.00471	105.
LINE FURDE	7	0.00473	-66.	0.00475	147.	0.00477	32.
LINE FURDE	7	0.00479	30.	0.00481	183.	0.00483	117.
LINE FURDE	7	0.00484	-21.	0.00486	211.	0.00488	121.
LINE FURDE	7	0.00490	85.	0.00492	251.	0.00494	224.
LINE FURDE	7	0.00496	106.	0.00498	411.	0.00500	176.
LINE FURDE	7	0.00502	189.	0.00503	444.	0.00505	169.
LINE FURDE	7	0.00507	211.	0.00509	551.	0.00511	175.
LINE FURDE	7	0.00513	546.	0.00515	107.	0.00517	390.
LINE FURDE	7	0.00519	383.	0.00521	593.	0.00522	137.
LINE FURDE	7	0.00524	483.	0.00526	427.	0.00528	689.
LINE FURDE	7	0.00530	128.	0.00532	656.	0.00534	212.
LINE FURDE	7	0.00538	599.	0.00540	291.	0.00541	728.
LINE FURDE	7	0.00543	323.	0.00545	779.	0.00547	362.
LINE FURDE	7	0.00551	583.	0.00553	879.	0.00555	430.
LINE FURDE	7	0.00557	938.	0.00559	445.	0.00562	915.
LINE FURDE	7	0.00564	377.	0.00566	767.	0.00568	957.
LINE FURDE	7	0.00570	442.	0.00572	1130.	0.00574	569.
LINE FURDE	7	0.00576	865.	0.00579	564.	0.00581	623.
LINE FURDE	7	0.00583	492.	0.00585	542.	0.00587	649.
LINE FURDE	7	0.00589	508.	0.00591	559.	0.00593	677.
LINE FURDE	7	0.00598	721.	0.00600	725.	0.00602	598.
LINE FURDE	7	0.00606	848.	0.00608	681.	0.00616	786.
LINE FURDE	7	0.00617	567.	0.00619	593.	0.00621	694.
LINE FURDE	7	0.00625	683.	0.00627	493.	0.00629	533.
LINE FURDE	7	0.00631	651.	0.00633	475.	0.00635	514.
LINE FURDE	7	0.00636	646.	0.00638	723.	0.00640	634.
LINE FURDE	7	0.00648	590.	0.00652	534.	0.00654	553.
LINE FURDE	7	0.00655	626.	0.00657	540.	0.00659	534.
LINE FURDE	7	0.00661	591.	0.00663	483.	0.00665	433.
LINE FURDE	7	0.00667	471.	0.00671	355.	0.00674	332.
LINE FURDE	7	0.00678	411.	0.00680	312.	0.00682	334.
LINE FURDE	7	0.00684	481.	0.00688	291.	0.00690	463.
LINE FURDE	7	0.00692	475.	0.00693	344.	0.00697	447.
LINE FURDE	7	0.00699	103.	0.00701	0.	0.00703	-46.
LINE FURDE	7	0.00705	-30.	0.00707	57.	0.00712	3.
LINE FURDE	7	0.00716	102.	0.00718	50.	0.00720	-71.
LINE FURDE	7	0.00722	-56.	0.00724	11.	0.00726	-89.
LINE FURDE	7	0.00728	-112.	0.00730	-36.	0.00731	-34.
LINE FURDE	7	0.00735	-193.	0.00739	-113.	0.00743	-254.
LINE FURDE	7	0.00745	-230.	0.00747	-118.	0.00749	-273.
LINE FURDE	7	0.00750	-313.	0.00752	-134.	0.00754	-218.
LINE FURDE	7	0.00756	-379.	0.00758	-392.	0.00760	-295.
LINE FURDE	7	0.00762	-359.	0.00764	-244.	0.00766	-61.
LINE FURDE	7	0.00769	-96.	0.00773	-214.	0.00775	-176.
LINE FURDE	7	0.00777	-219.	0.00779	-192.	0.00783	-234.
LINE FURDE	7	0.00787	-82.	0.00788	-116.	0.00794	-53.
LINE FURDE	7	0.00798	-85.	0.00800	0.	0.00807	-28.
LINE FURDE	7	0.00809	40.	0.00811	-77.	0.00813	-105.
LINE FURDE	7	0.00815	45.	0.00819	-23.	0.00821	-8.
LINE FURDE	7	0.00823	155.	0.00825	196.	0.00826	-10.
LINE FURDE	7	0.00830	92.	0.00832	92.	0.00834	161.
LINE FURDE	7	0.00836	97.	0.00838	194.	0.00840	220.
LINE FURDE	7	0.00842	138.	0.00844	316.	0.00847	81.
LINE FURDE	7	0.00849	180.	0.00851	107.	0.00855	59.
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LINE FURJE	8	0.00908	203.	0.00910	83.	0.00912	277.
LINE FURJE	8	0.00914	328.	0.00916	238.	0.00920	276.
LINE FURJE	8	0.00921	248.	0.00923	64.	0.00925	117.
LINE FURJE	8	0.00927	260.	0.00929	118.	0.00931	90.
LINE FURJE	8	0.00933	145.	0.00935	304.	0.00939	57.
LINE FURJE	8	0.00942	171.	0.00944	279.	0.00946	228.
LINE FURJE	8	0.00948	95.	0.00950	247.	0.00952	336.
LINE FURJE	8	0.00956	318.	0.00958	434.	0.00963	505.
LINE FURJE	8	0.00965	468.	0.00967	587.	0.00969	534.
LINE FURJE	8	0.00975	520.	0.00977	593.	0.00978	514.
LINE FURJE	8	0.00982	640.	0.00984	465.	0.00988	560.
LINE FURJE	8	0.00990	499.	0.00992	516.	0.00994	663.
LINE FURJE	8	0.00997	815.	0.00999	701.	0.01001	638.
LINE FURJE	8	0.01003	733.	0.01005	883.	0.01007	847.
LINE FURJE	8	0.01009	705.	0.01011	826.	0.01013	813.
LINE FURJE	8	0.01015	632.	0.01016	774.	0.01018	671.
LINE FURJE	8	0.01020	461.	0.01022	387.	0.01024	403.
LINE FURJE	8	0.01026	502.	0.01028	356.	0.01030	524.
LINE FURJE	8	0.01032	580.	0.01034	455.	0.01035	545.
LINE FURJE	8	0.01037	576.	0.01039	524.	0.01041	410.
LINE FURJE	8	0.01043	469.	0.01045	434.	0.01047	273.
LINE FURJE	8	0.01049	467.	0.01051	504.	0.01053	379.
LINE FURJE	8	0.01054	343.	0.01056	426.	0.01060	185.
LINE FURJE	8	0.01066	297.	0.01070	155.	0.01072	209.
LINE FURJE	8	0.01073	196.	0.01077	25.	0.01079	117.
LINE FURJE	8	0.01083	-110.	0.01085	113.	0.01087	233.
LINE FURJE	8	0.01089	186.	0.01091	-20.	0.01094	105.
LINE FURJE	8	0.01096	-122.	0.01100	38.	0.01102	-4.
LINE FURJE	8	0.01104	-93.	0.01106	-70.	0.01108	63.
LINE FURJE	8	0.01110	-61.	0.01111	-23.	0.01115	-72.
LINE FURJE	8	0.01117	-7.	0.01123	-69.	0.01127	-25.
LINE FURJE	8	0.01129	-179.	0.01130	-230.	0.01134	-95.
LINE FURJE	8	0.01136	-203.	0.01138	-181.	0.01142	-41.
LINE FURJE	8	0.01144	-17.	0.01149	-98.	0.01151	-162.
LINE FURJE	8	0.01153	-139.	0.01157	9.	0.01159	-40.
LINE FURJE	8	0.01161	-23.	0.01167	-168.	0.01168	-183.
LINE FURJE	8	0.01170	-95.	0.01172	-220.	0.01174	-183.
LINE FURJE	8	0.01176	-63.	0.01178	-119.	0.01180	-93.
LINE FURJE	8	0.01182	-114.	0.01184	-66.	0.01186	-90.
LINE FURJE	8	0.01187	-199.	0.01189	-20.	0.01193	-27.
LINE FURJE	8	0.01195	29.	0.01197	16.	0.01199	-55.
LINE FURJE	8	0.01203	8.	0.01205	86.	0.01208	13.
LINE FURJE	8	0.01214	92.	0.01216	178.	0.01220	160.
LINE FURJE	8	0.01222	109.	0.01225	125.	0.01227	63.
LINE FURJE	8	0.01229	182.	0.01233	166.	0.01235	231.
LINE FURJE	8	0.01239	207.	0.01241	128.	0.01244	215.
LINE FURJE	8	0.01248	127.	0.01250	130.	0.01252	217.
LINE FURJE	8	0.01254	272.	0.01256	144.	0.01258	128.
LINE FURJE	8	0.01260	170.	0.01262	115.	0.01263	192.
LINE FURJE	8	0.01269	292.	0.01271	167.	0.01273	182.
LINE FURJE	8	0.01275	248.	0.01277	139.	0.01279	211.
LINE FURJE	8	0.01288	202.	0.01290	88.	0.01292	221.
LINE FURJE	8	0.01294	288.	0.01296	233.	0.01298	264.
LINE FURJE	8	0.01300	147.	0.01301	275.	0.01303	345.
LINE FURJE	8	0.01305	288.	0.01309	343.	0.01311	259.
LINE FURJE	8	0.01317	393.	0.01319	311.	0.01320	281.
LINE FURJE	8	0.01322	405.	0.01324	348.	0.01326	395.
LINE FURJE	8	0.01328	370.	0.01330	255.	0.01332	242.
LINE FURJE	8	0.01334	150.	0.01336	193.	0.01338	342.
LINE FURJE	8	0.01339	157.	0.01345	247.	0.01347	239.



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LINE FURCE	9	0.01400	179,	0.01402	182,	0.01414	0.01414	337,	
LINE FURCE	9	0.01410	229,	0.01412	247,	0.01423	0.01423	320,	
LINE FURCE	9	0.01415	349,	0.01417	383,	0.01431	0.01431	342,	
LINE FURCE	9	0.01425	266,	0.01427	333,	0.01440	0.01440	224,	
LINE FURCE	9	0.01434	255,	0.01436	250,	0.01452	0.01452	185,	
LINE FURCE	9	0.01444	204,	0.01446	165,	0.01461	0.01461	303,	
LINE FURCE	9	0.01455	232,	0.01457	258,	0.01469	0.01469	169,	
LINE FURCE	9	0.01463	231,	0.01467	135,	0.01476	0.01476	125,	
LINE FURCE	9	0.01472	70,	0.01474	68,	0.01482	0.01482	63,	
LINE FURCE	9	0.01478	11,	0.01480	-134,	0.01490	0.01490	-108,	
LINE FURCE	9	0.01484	-62,	0.01488	-163,	0.01497	0.01497	-205,	
LINE FURCE	9	0.01493	-202,	0.01495	-269,	0.01503	0.01503	-248,	
LINE FURCE	9	0.01499	-195,	0.01501	-232,	0.01509	0.01509	-237,	
LINE FURCE	9	0.01505	-106,	0.01507	-283,	0.01518	0.01518	-211,	
LINE FURCE	9	0.01512	-124,	0.01516	-159,	0.01539	0.01539	-296,	
LINE FURCE	9	0.01526	-312,	0.01537	-240,	0.01545	0.01545	-233,	
LINE FURCE	9	0.01541	-325,	0.01543	-166,	0.01554	0.01554	-236,	
LINE FURCE	9	0.01547	-347,	0.01550	-202,	0.01564	0.01564	-62,	
LINE FURCE	9	0.01558	-117,	0.01562	-98,	0.01571	0.01571	22,	
LINE FURCE	9	0.01566	-7,	0.01569	-116,	0.01579	0.01579	-118,	
LINE FURCE	9	0.01573	1,	0.01577	-33,	0.01586	0.01586	45,	
LINE FURCE	9	0.01581	-9,	0.01583	7,	0.01592	0.01592	-53,	
LINE FURCE	9	0.01588	-7,	0.01590	-38,	0.01598	0.01598	-126,	
LINE FURCE	9	0.01594	-21,	0.01596	53,	0.01609	0.01609	-14,	
LINE FURCE	9	0.01600	-30,	0.01607	78,	0.01617	0.01617	55,	
LINE FURCE	9	0.01611	-6,	0.01613	140,	0.01626	0.01626	232,	
LINE FURCE	9	0.01623	170,	0.01624	75,	0.01632	0.01632	61,	
LINE FURCE	9	0.01628	206,	0.01630	89,	0.01640	0.01640	180,	
LINE FURCE	9	0.01634	151,	0.01636	155,	0.01649	0.01649	126,	
LINE FURCE	9	0.01643	210,	0.01645	131,	0.01655	0.01655	223,	
LINE FURCE	9	0.01651	-8,	0.01653	114,	0.01662	0.01662	273,	
LINE FURCE	9	0.01657	258,	0.01661	170,	0.01668	0.01668	242,	
LINE FURCE	9	0.01664	256,	0.01666	253,	0.01681	0.01681	83,	
LINE FURCE	9	0.01672	214,	0.01678	74,	0.01697	0.01697	167,	
LINE FURCE	9	0.01685	181,	0.01687	221,	0.01710	0.01710	98,	
LINE FURCE	9	0.01700	104,	0.01704	171,	0.01718	0.01718	274,	
LINE FURCE	9	0.01712	176,	0.01714	171,	0.01737	0.01737	230,	
LINE FURCE	9	0.01721	72,	0.01725	122,	0.01748	0.01748	288,	
LINE FURCE	9	0.01740	202,	0.01744	187,	0.01754	0.01754	152,	
LINE FURCE	9	0.01750	175,	0.01752	107,	0.01767	0.01767	185,	
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LINE FURCE	9	0.01769	91,	0.01773	183,	0.01786	0.01786	189,	
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LINE FURCE	9	0.01782	148,	0.01784	50,	0.01803	0.01803	43,	
LINE FURCE	9	0.01790	157,	0.01794	73,	0.01813	0.01813	13,	
LINE FURCE	9	0.01799	32,	0.01801	65,	0.01830	0.01830	107,	
LINE FURCE	9	0.01809	90,	0.01811	133,	0.01837	0.01837	15,	
LINE FURCE	9	0.01820	115,	0.01822	6,	0.01852	0.01852	76,	
LINE FURCE	9	0.01832	81,	0.01833	89,	0.01858	0.01858	88,	
LINE FURCE	9	0.01841	41,	0.01845	84,	0.01866	0.01866	38,	
LINE FURCE	9	0.01854	21,	0.01856	90,	0.01877	0.01877	153,	
LINE FURCE	9	0.01860	41,	0.01862	166,	0.01887	0.01887	179,	
LINE FURCE	9	0.01871	124,	0.01873	11,	0.01894	0.01894	67,	
LINE FURCE	9	0.01881	122,	0.01885	-77,	0.01904	0.01904	-130,	
LINE FURCE	9	0.01889	66,	0.01892	-118,	0.01921	0.01921	-83,	
LINE FURCE	9	0.01898	-42,	0.01902	-108,	0.01930	0.01930	-178,	
LINE FURCE	9	0.01906	-52,	0.01917	-143,	0.01944	0.01944	-319,	
LINE FURCE	9	0.01925	-201,	0.01927	-169,	0.01951	0.01951		
LINE FURCE	9	0.01936	-142,	0.01942					
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58.

0.01999

48.

0.01991

9

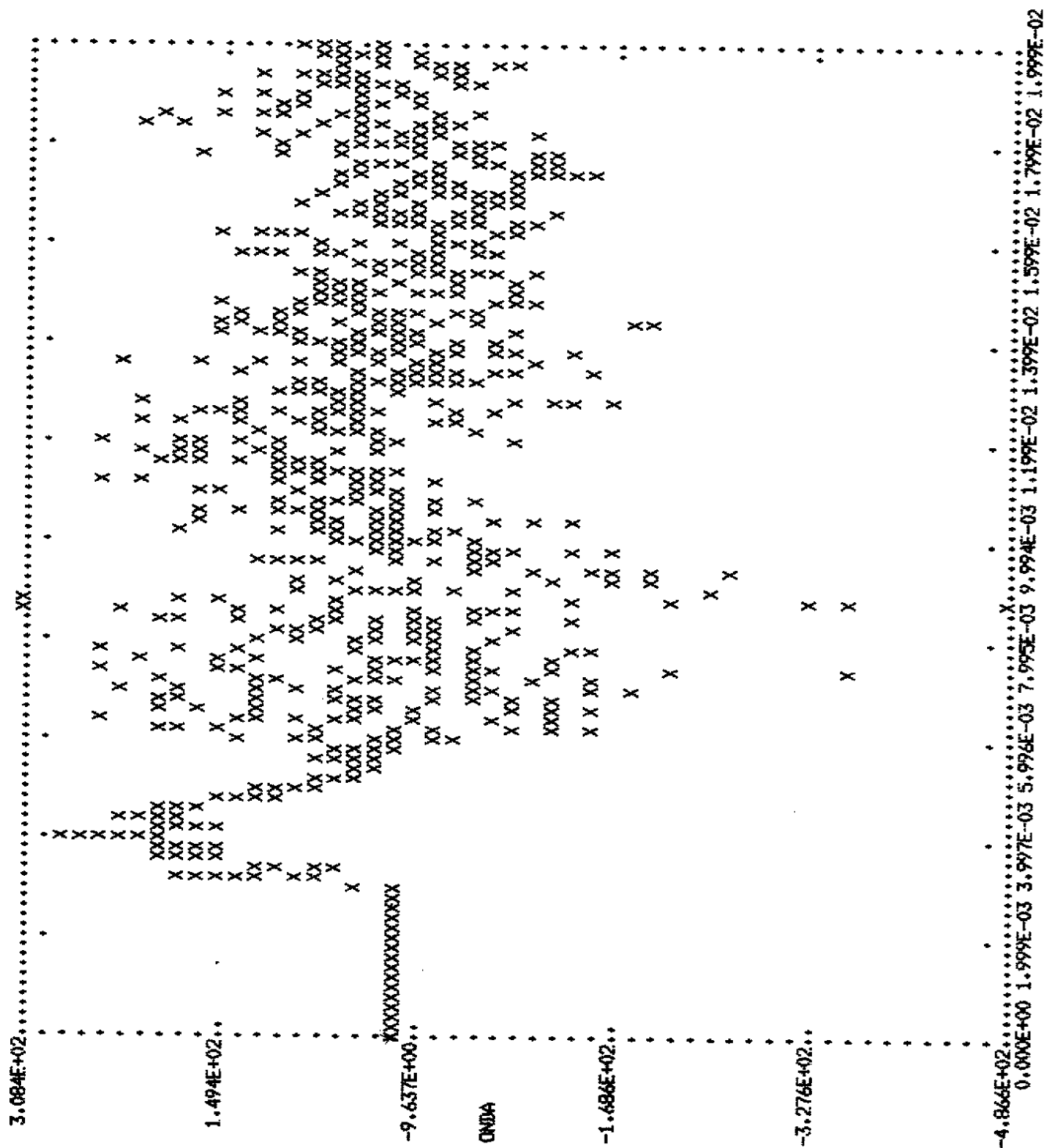
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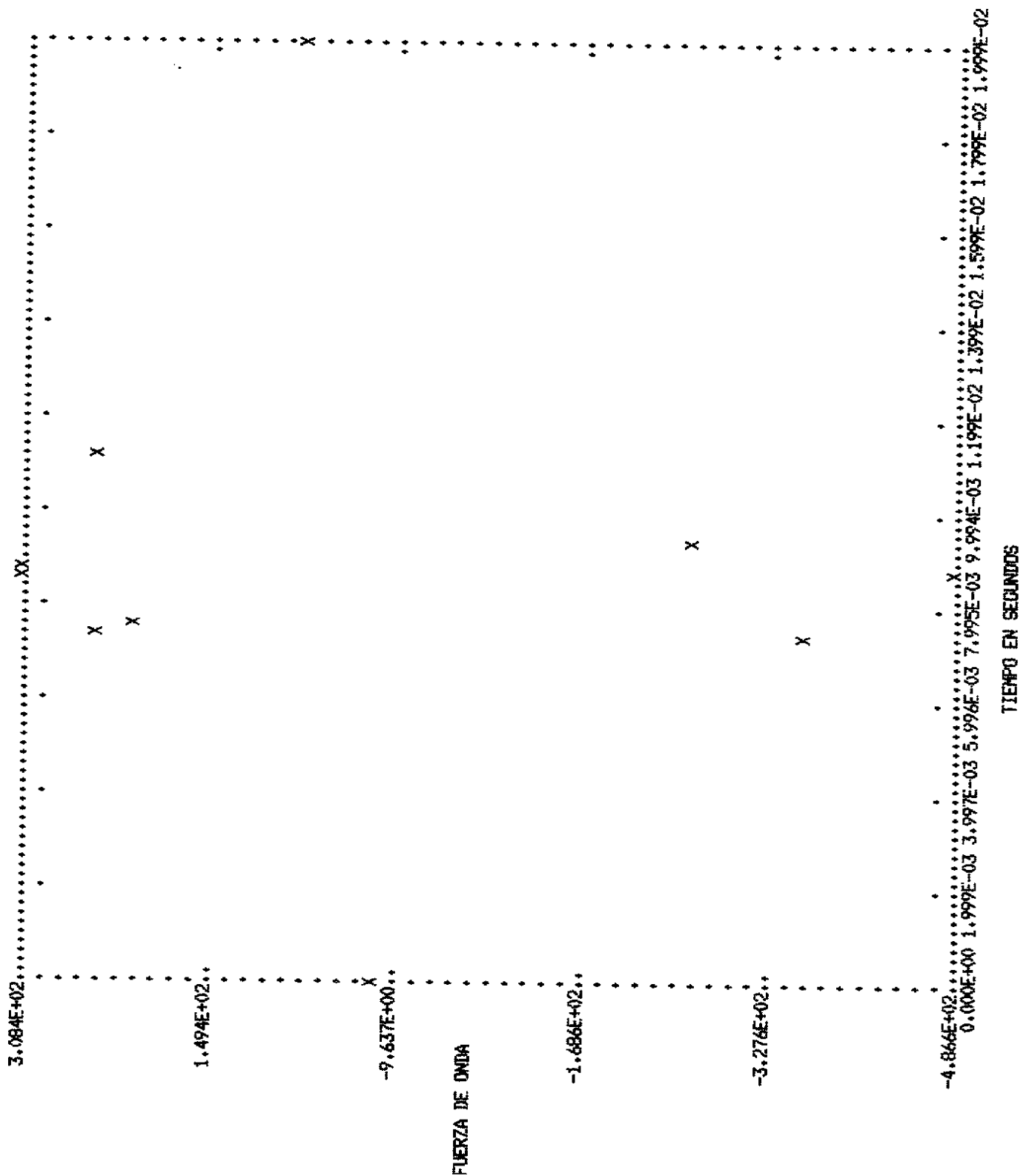
213 511 OR OVER

RAMA 2, TRAMO 1 CON 1053 PARES DE VALORES
(IC1= 2)
FUNCION TEMPORAL ORIGINAL



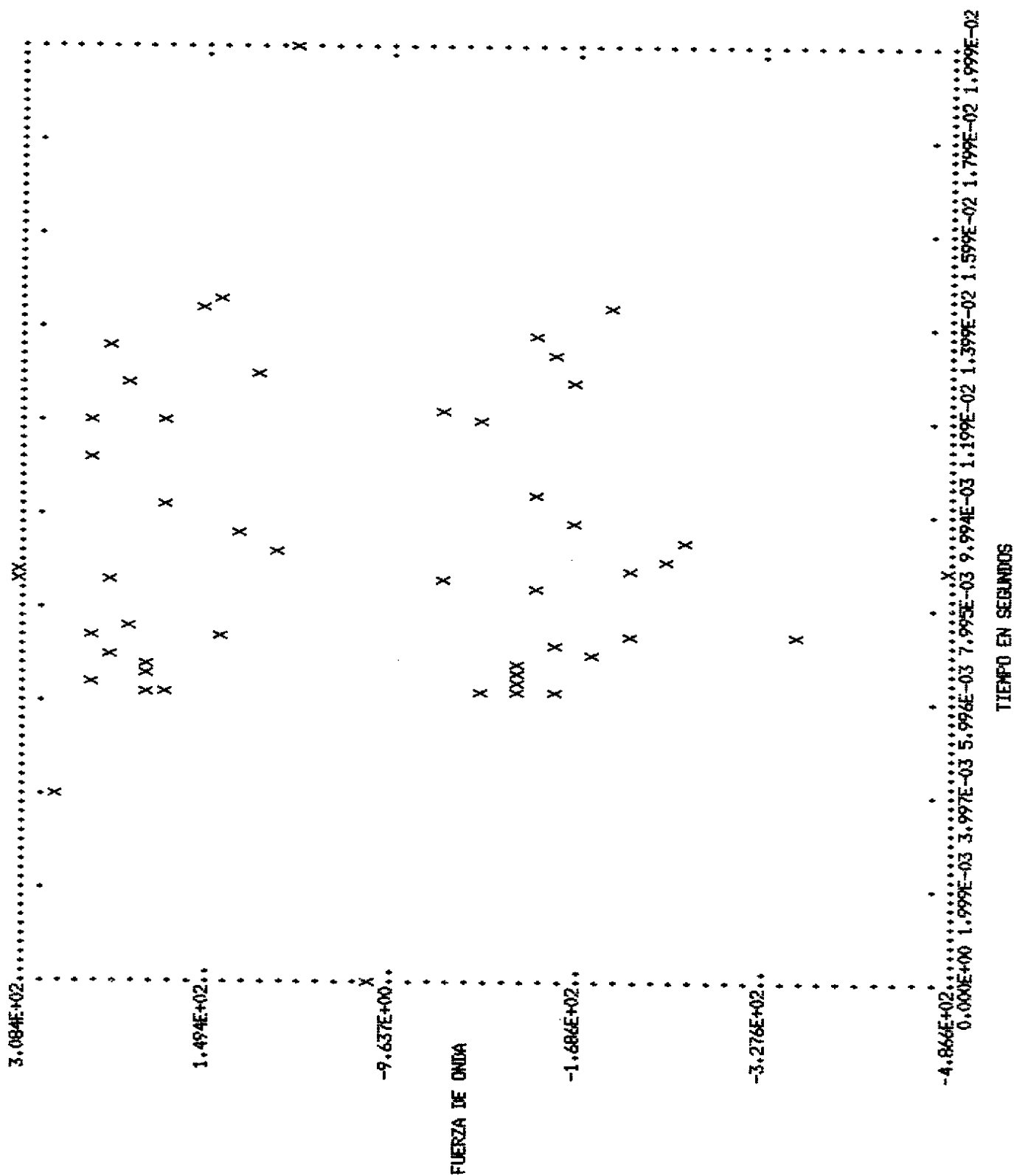
TIEMPO EN SEGUNDOS

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(ICI= 2)
FUNCION TEMPORAL REDUCIDA

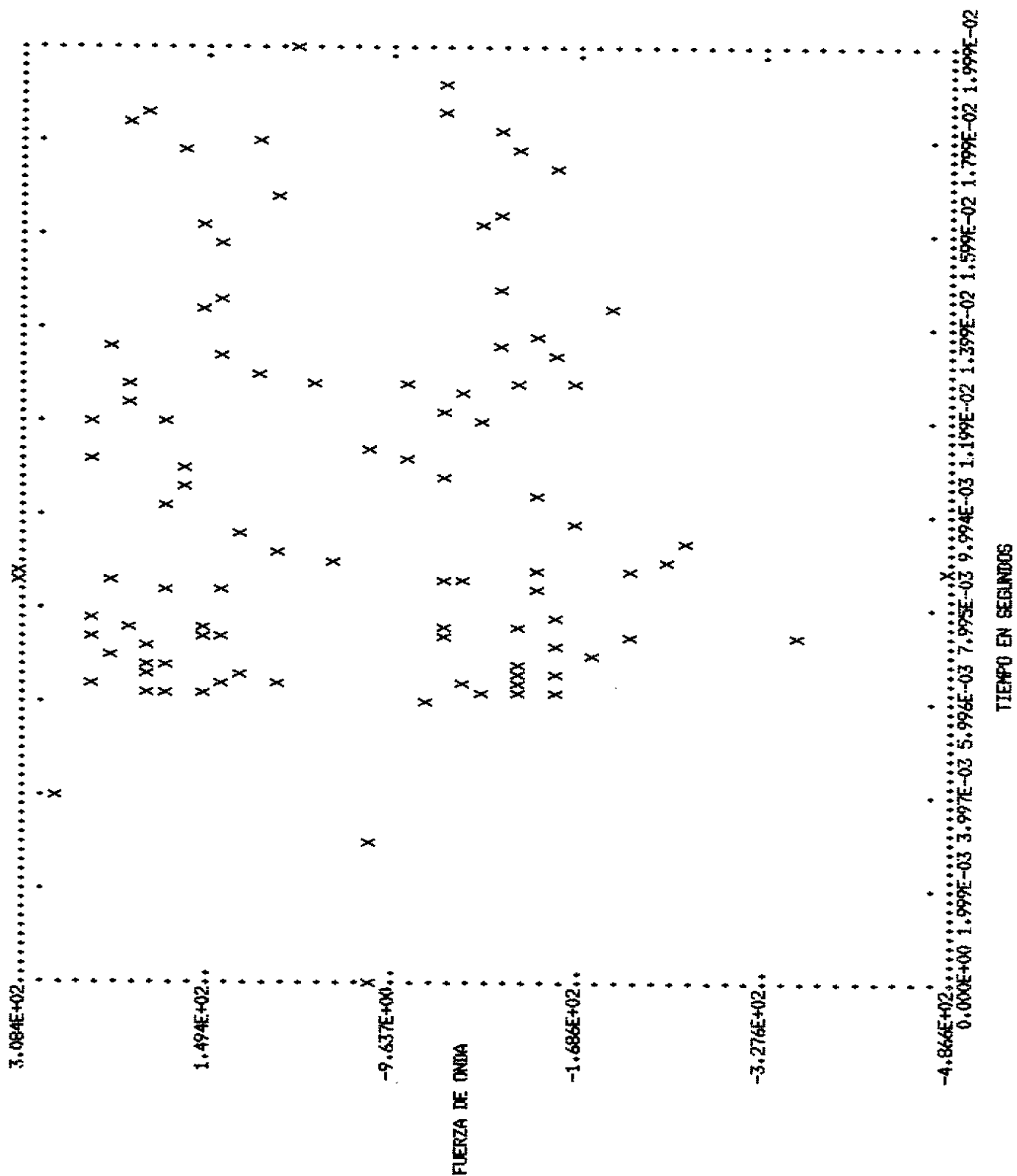


J6

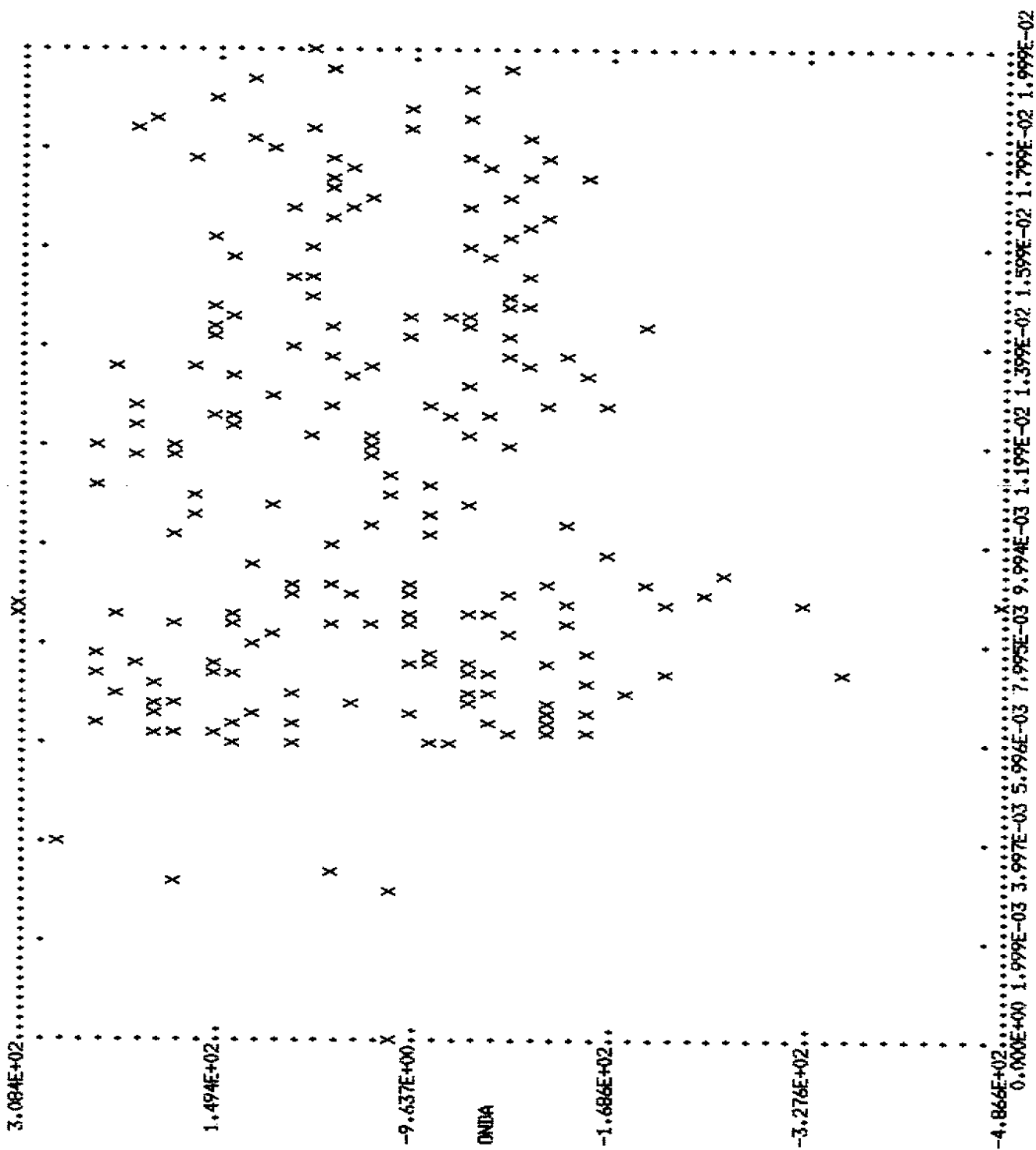
C.N. TRILLO-SISTEMA YP.
RAMA 2, TRAMO 1 CON 1053 PARES DE VALORES
(ICI= 2)
FUNCION TEMPORAL REDUCIDA



C.N. TRILLO-SISTEMA YP.
 RAMA 2, TRAMO 1 CON 1053 PARES DE VALORES
 (IC1= 2)
 FUNCION TEMPORAL REDUCIDA

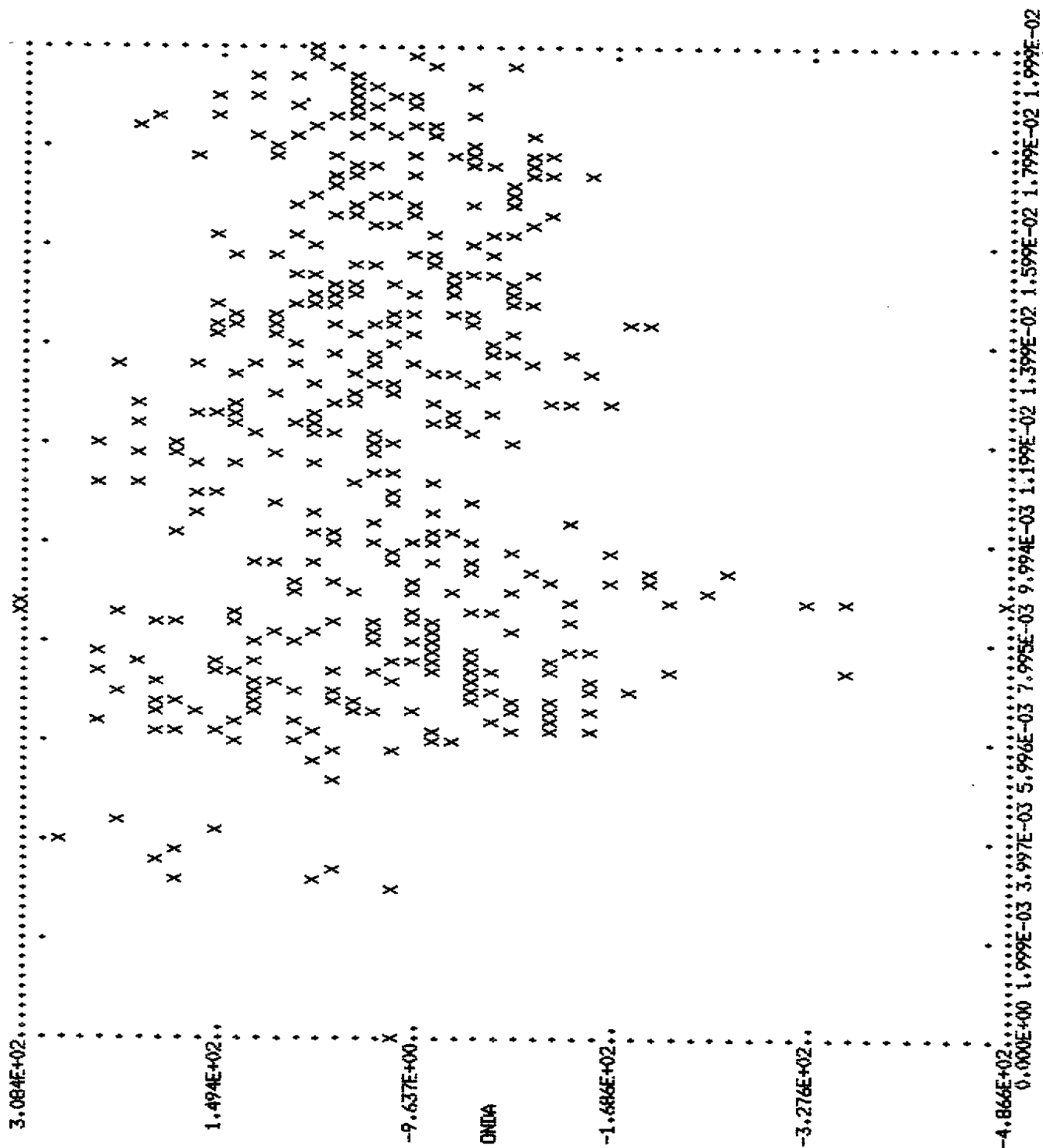


C.N. TRILLO-SISTEMA YP,
 RAMA 2, TRAMO 1 CON 1053 PARES DE VALORES
 (ICI= 2)
 FUNCION TEMPORAL REDUCIDA

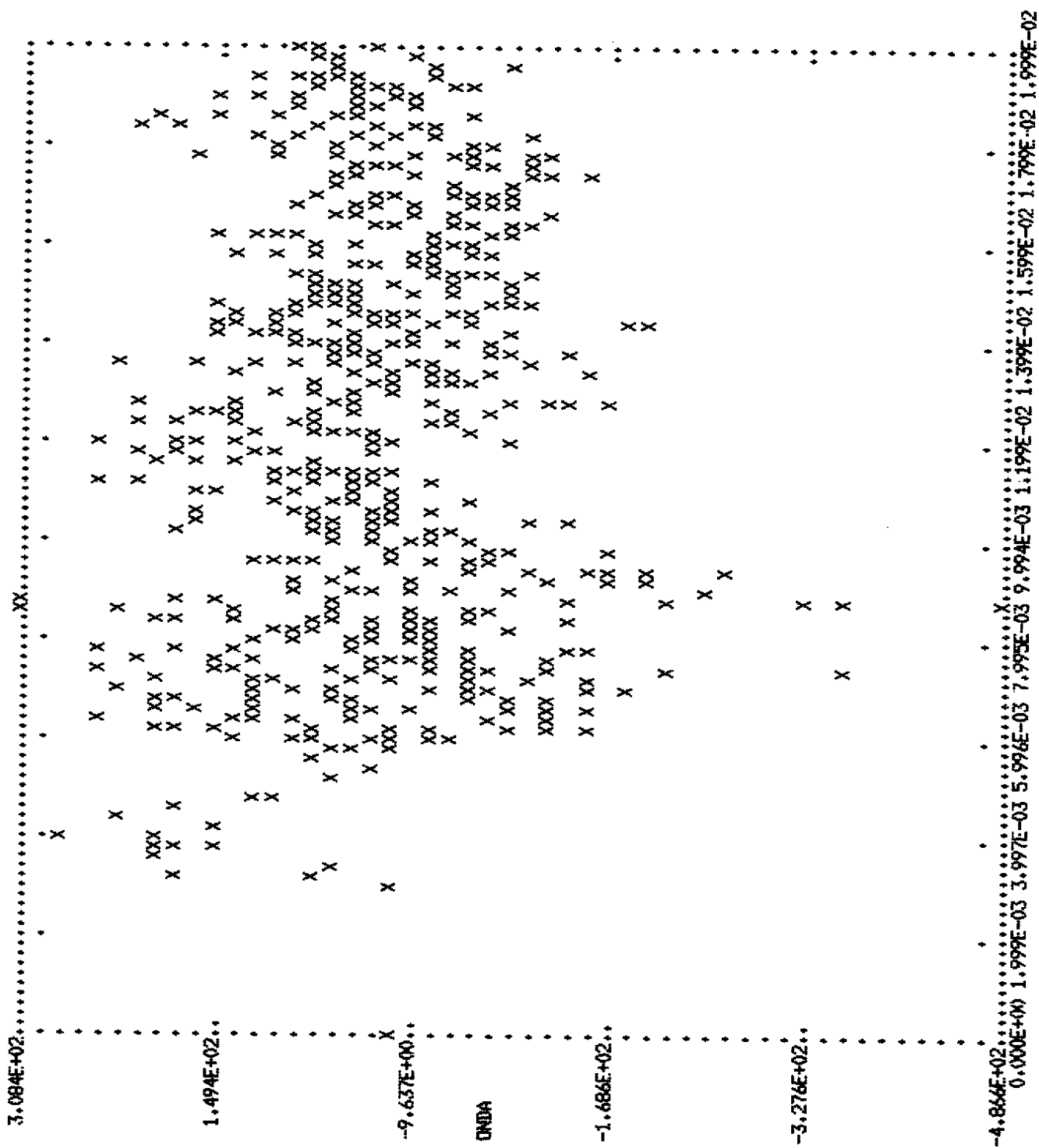


TIEMPO EN SEGUNDOS

C.N. TRILLO-SISTEMA YP,
RAMA 2, TRAMO 1 CON 1053 PARES DE VALORES
(ICJ= 2)
FUNCION TEMPORAL REDUCIDA

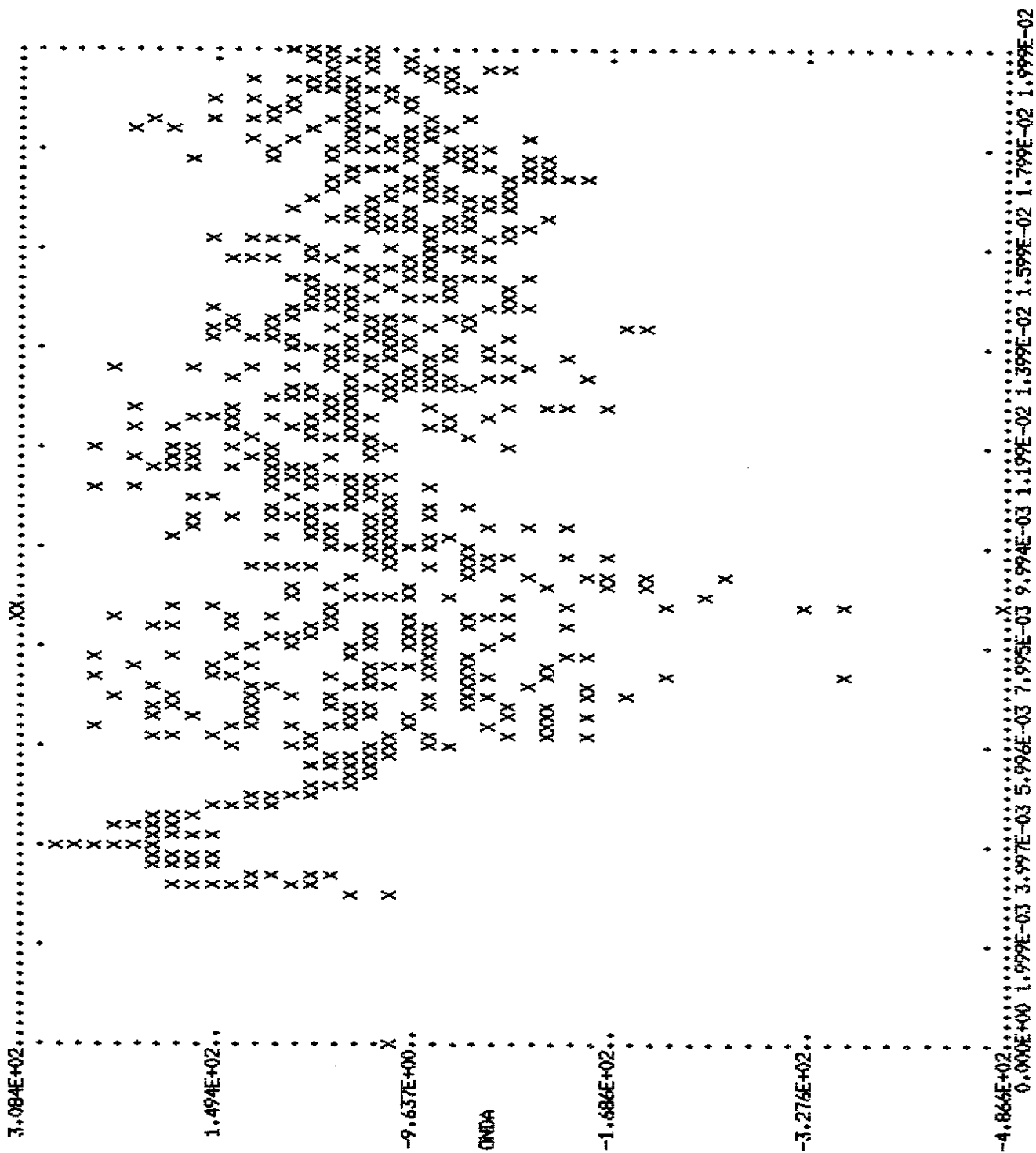


C.N. TRILLO-SISTEMA YP.
 RANA 2, TRAMO 1 CON 1053 PARES DE VALORES
 (ICI= 2)
 FUNCION TEMPORAL REDUCIDA



TIEMPO EN SEGUNDOS

C.N. TRILLO-SISTEMA YP.
RAMA 2, TRAMO 1 CON 1053 PARES DE VALORES
(IC1= 2)
FUNCION TEMPORAL REDUCIDA

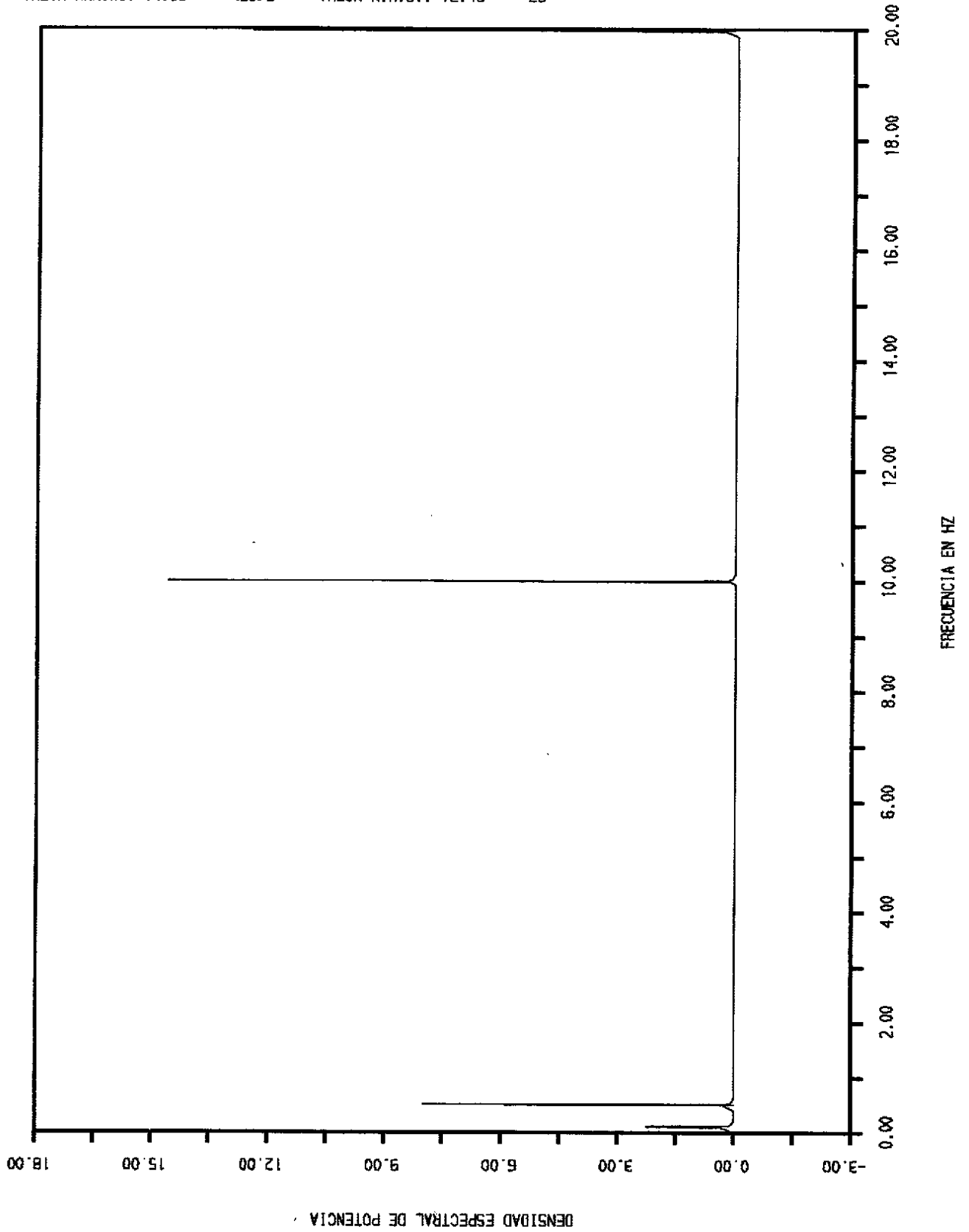




SEN_40

FUERZA

VALOR MAXIMO: 14.59 (LB)2 VALOR R.M.S.: 12.43 LB

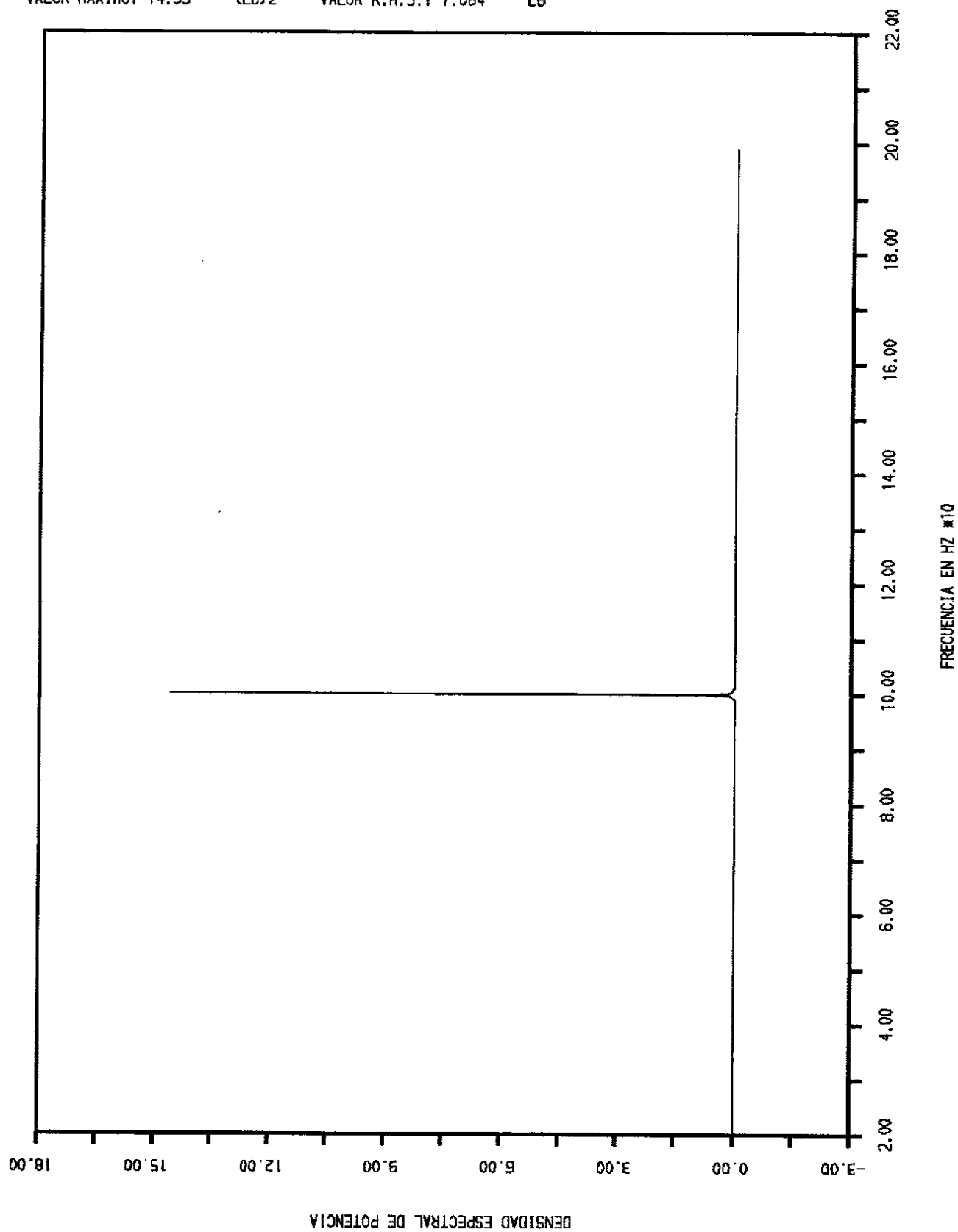




SEN_400

FUERZA

VALOR MAXIMO: 14.59 (LB)2 VALOR R.M.S.: 7.084 LB

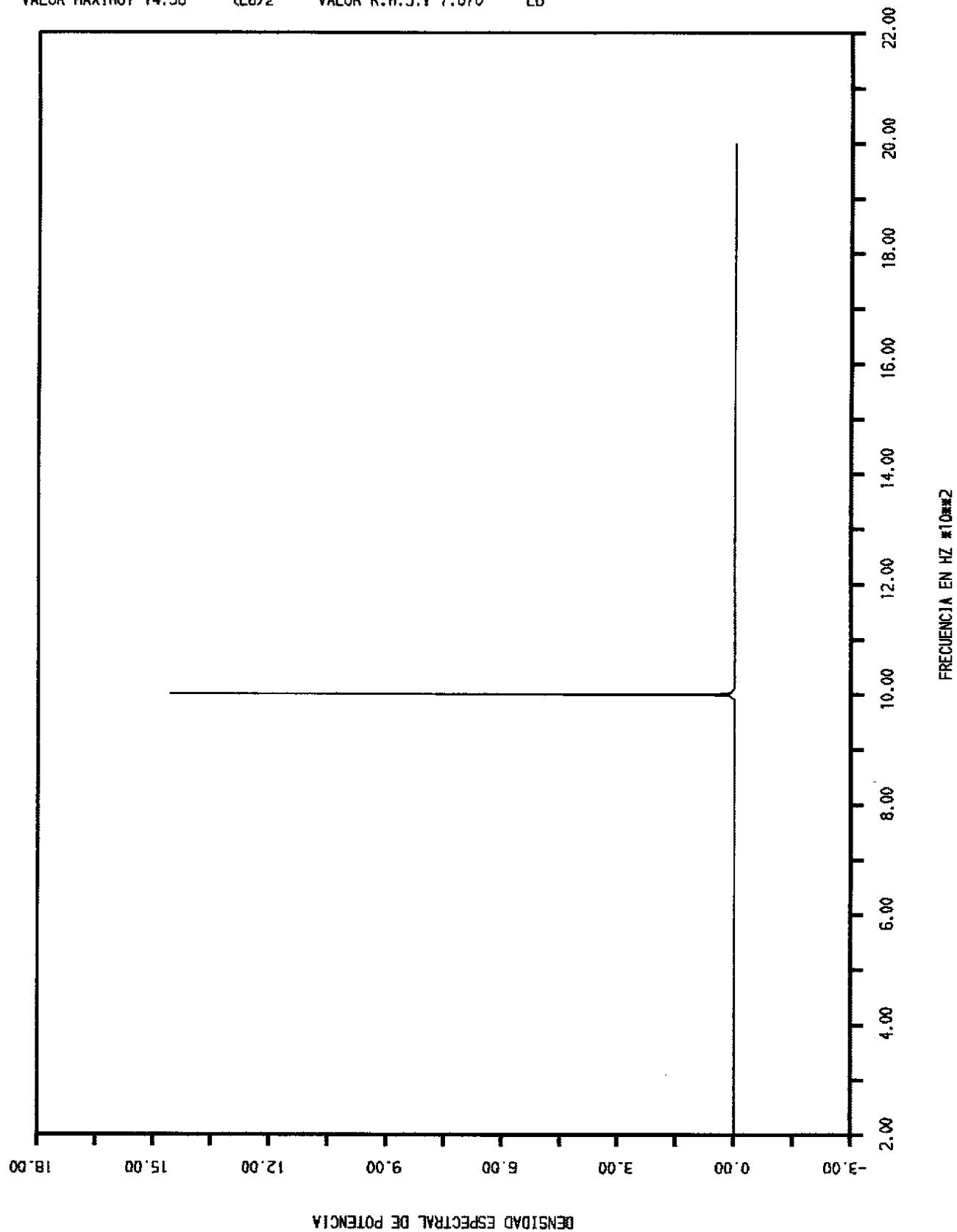




SEN_4000

FUERZA

VALOR MAXIMO: 14.58 (LB)2 VALOR R.M.S.: 7.070 LB

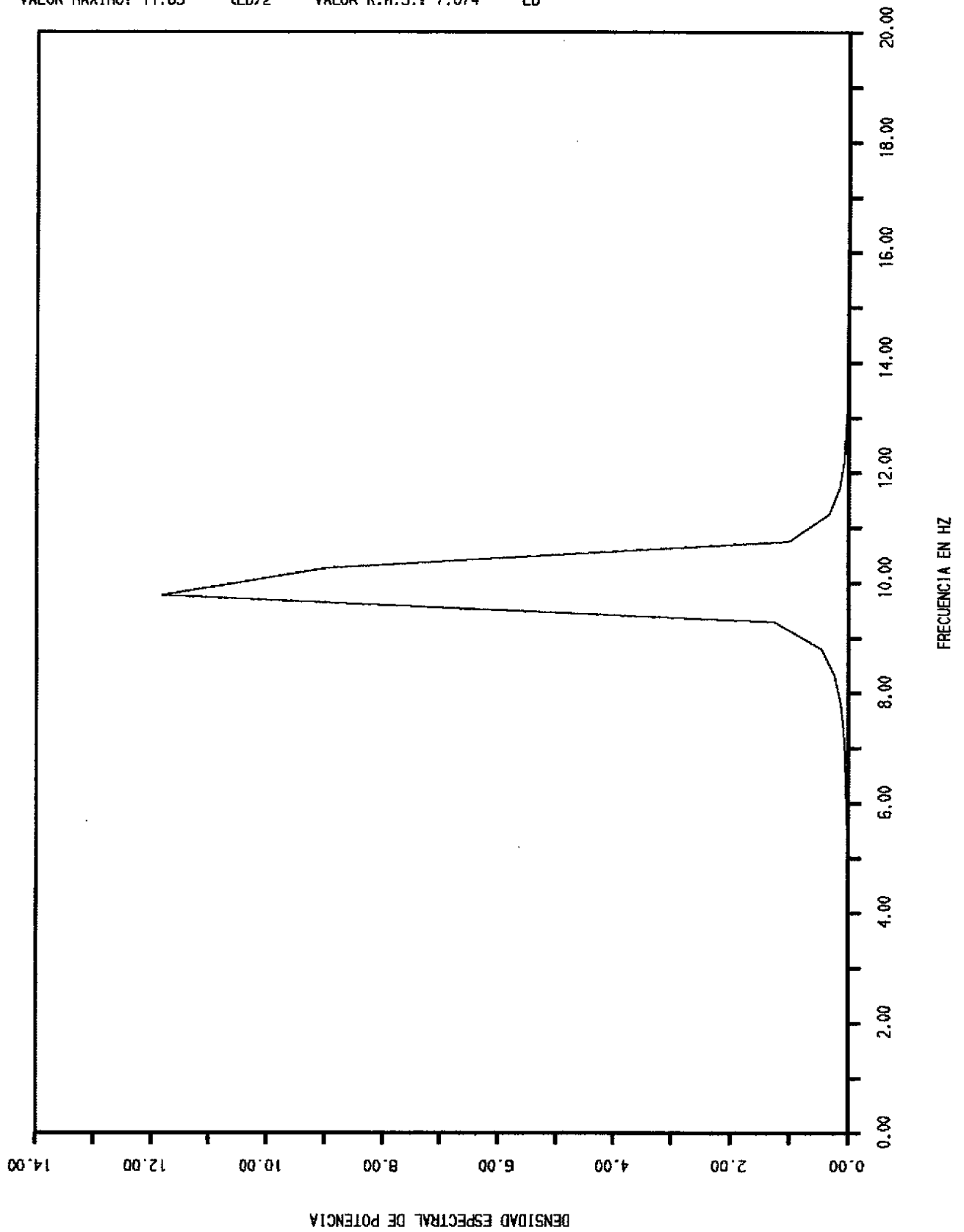




SEN_4000

FUERZA

VALOR MAXIMO: 11.83 (LB)2 VALOR R.M.S.: 7.074 LB

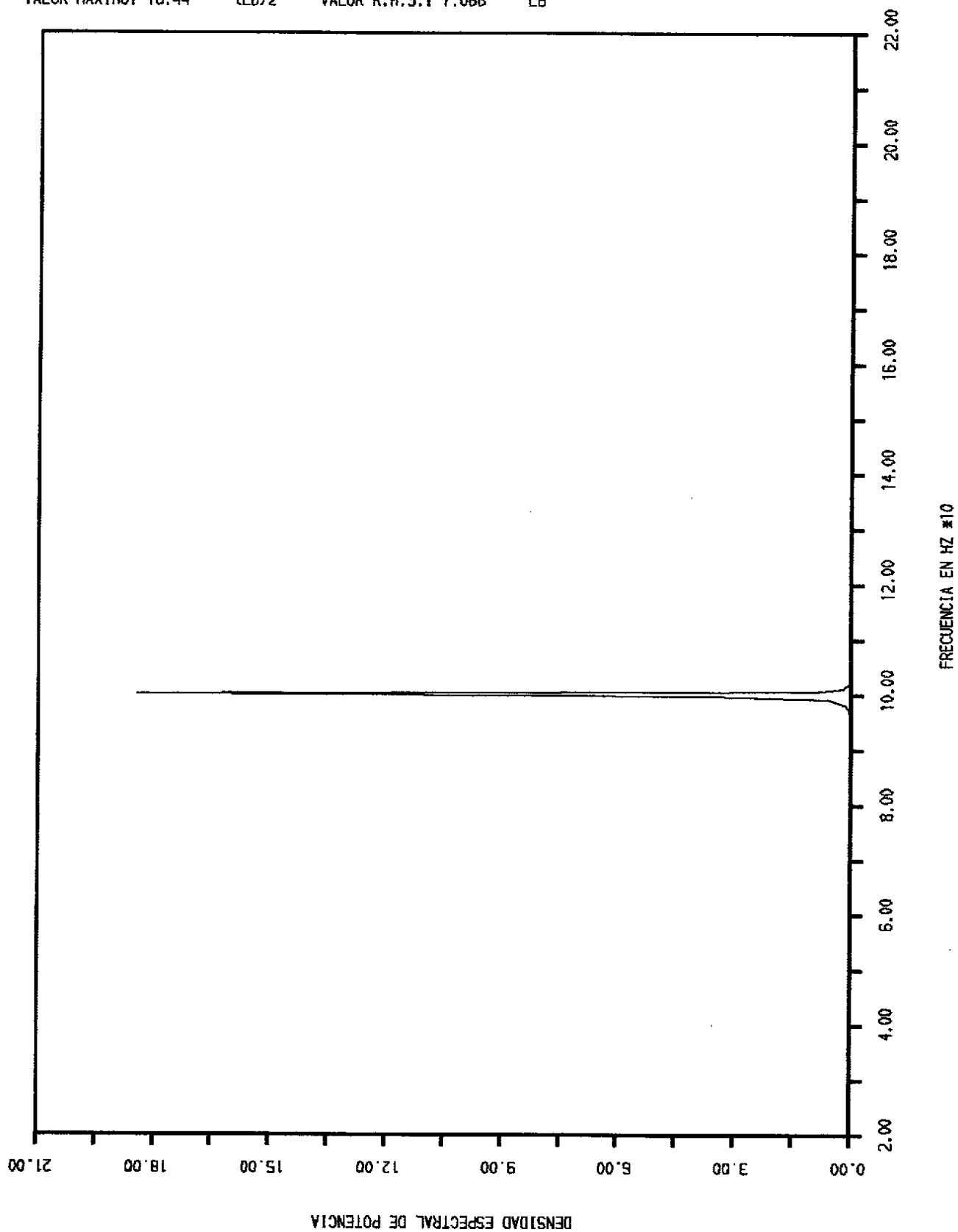




SEN_4000

FUERZA

VALOR MAXIMO: 18.44 (LB)2 VALOR R.M.S.: 7.06B LB

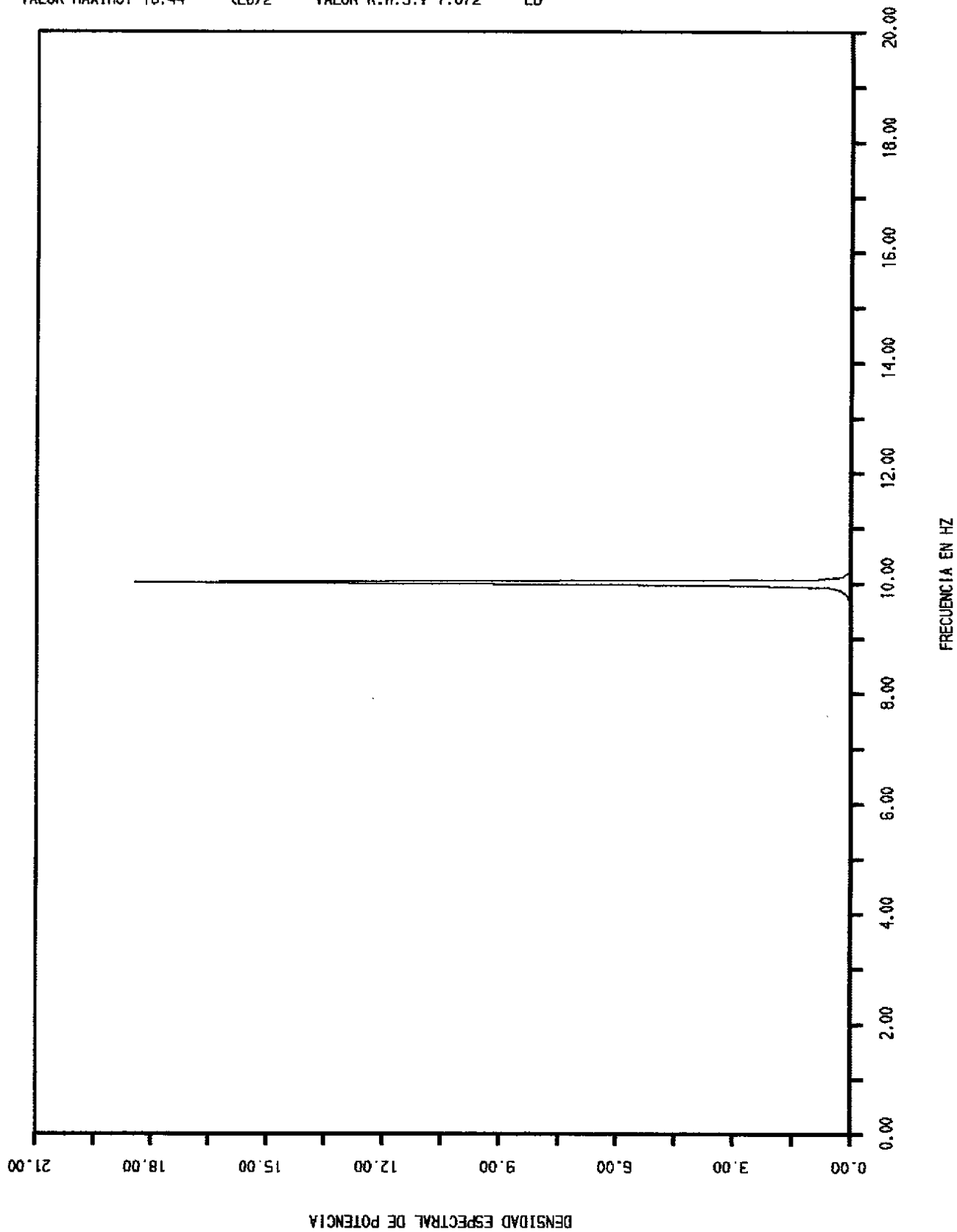




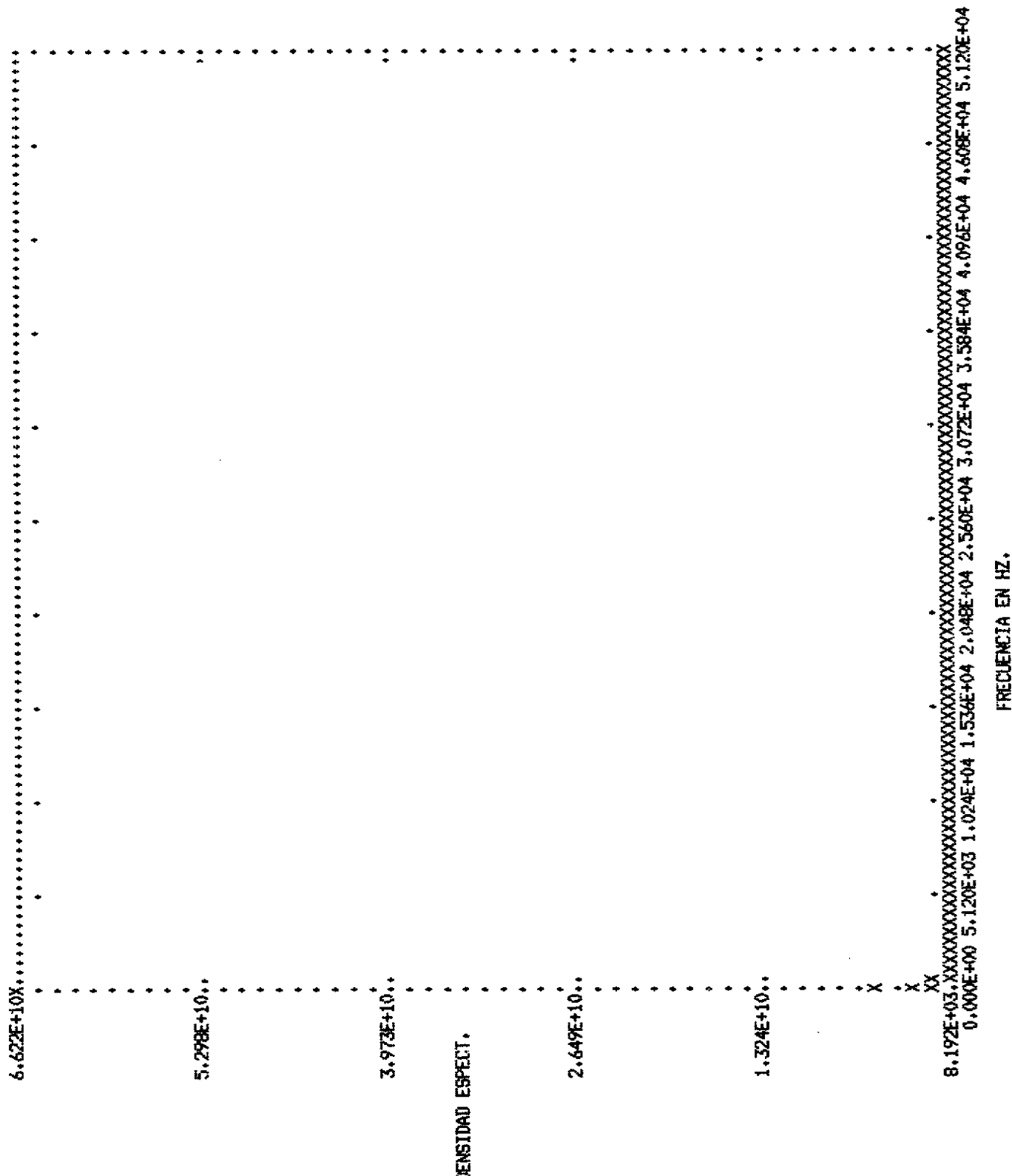
SEN_400

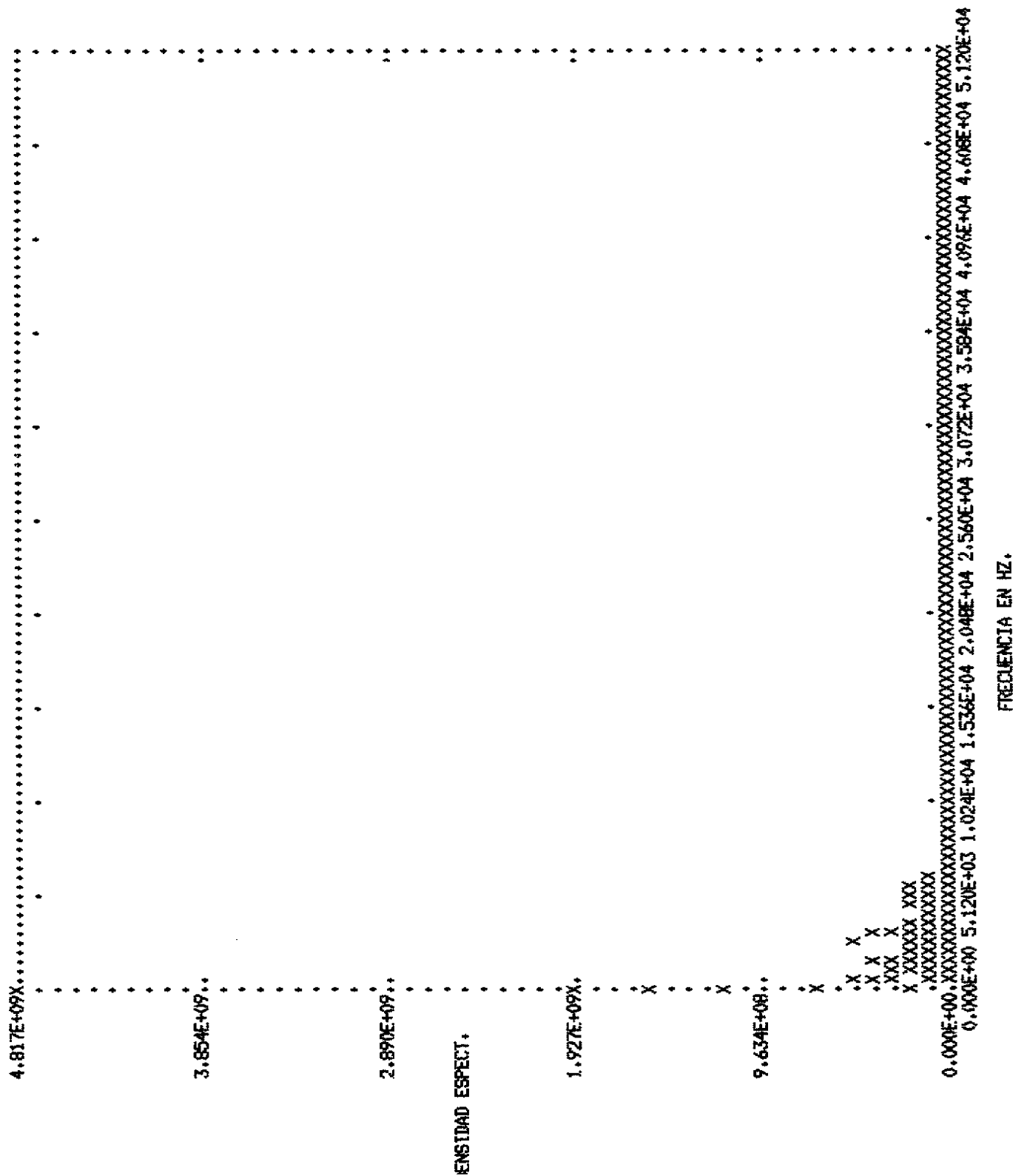
FUERZA

VALOR MAXIMO: 18.44 (LB)2 VALOR R.M.S.: 7.072 LB



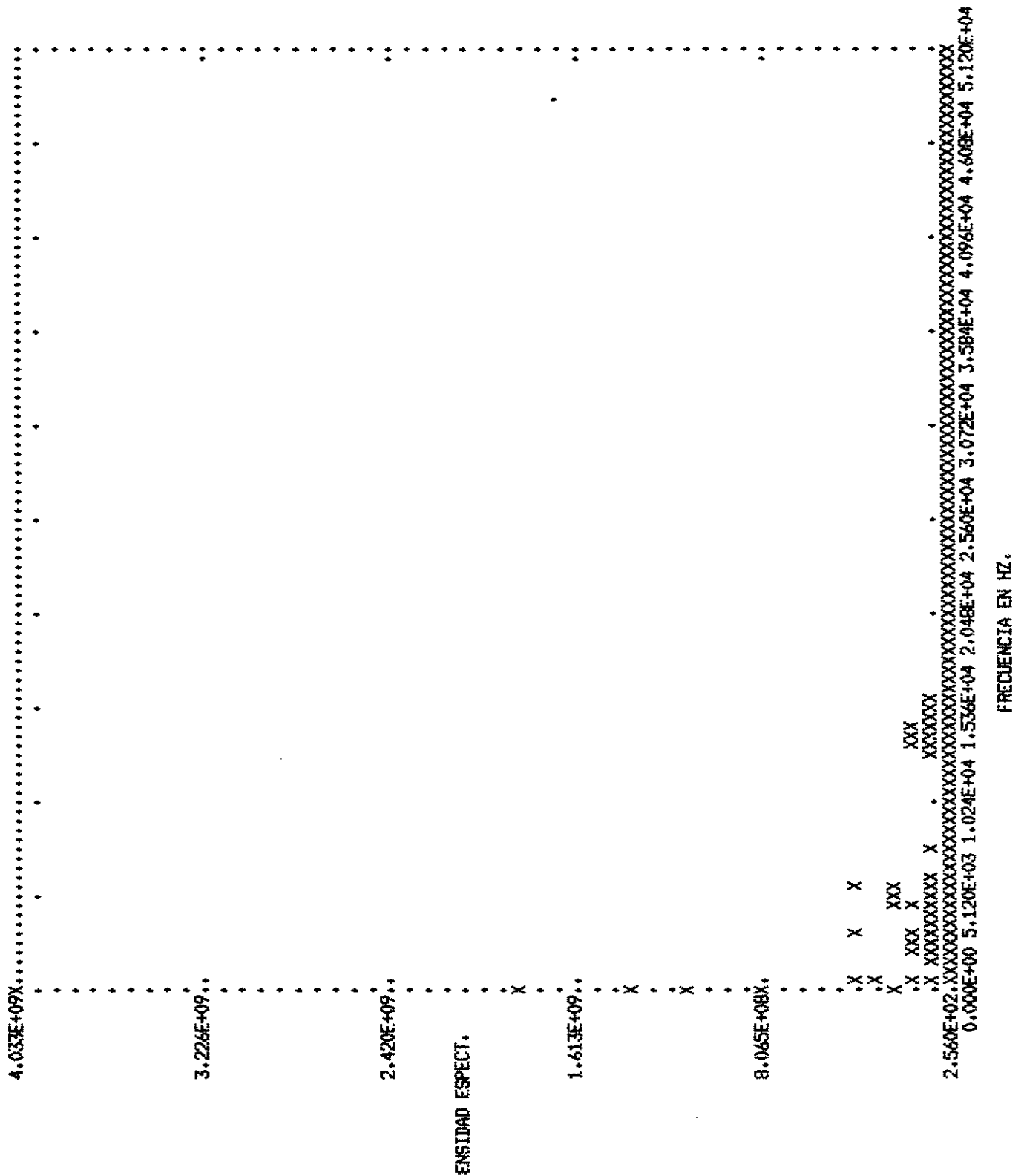
RAMA 2, TRAMO 1 CON 1053 PARES DE VALORES
(IC1= 2)
DENSIDAD ESPECTRAL DE POTENCIA DE LA FUNCION TEMPORAL REDUCIDA



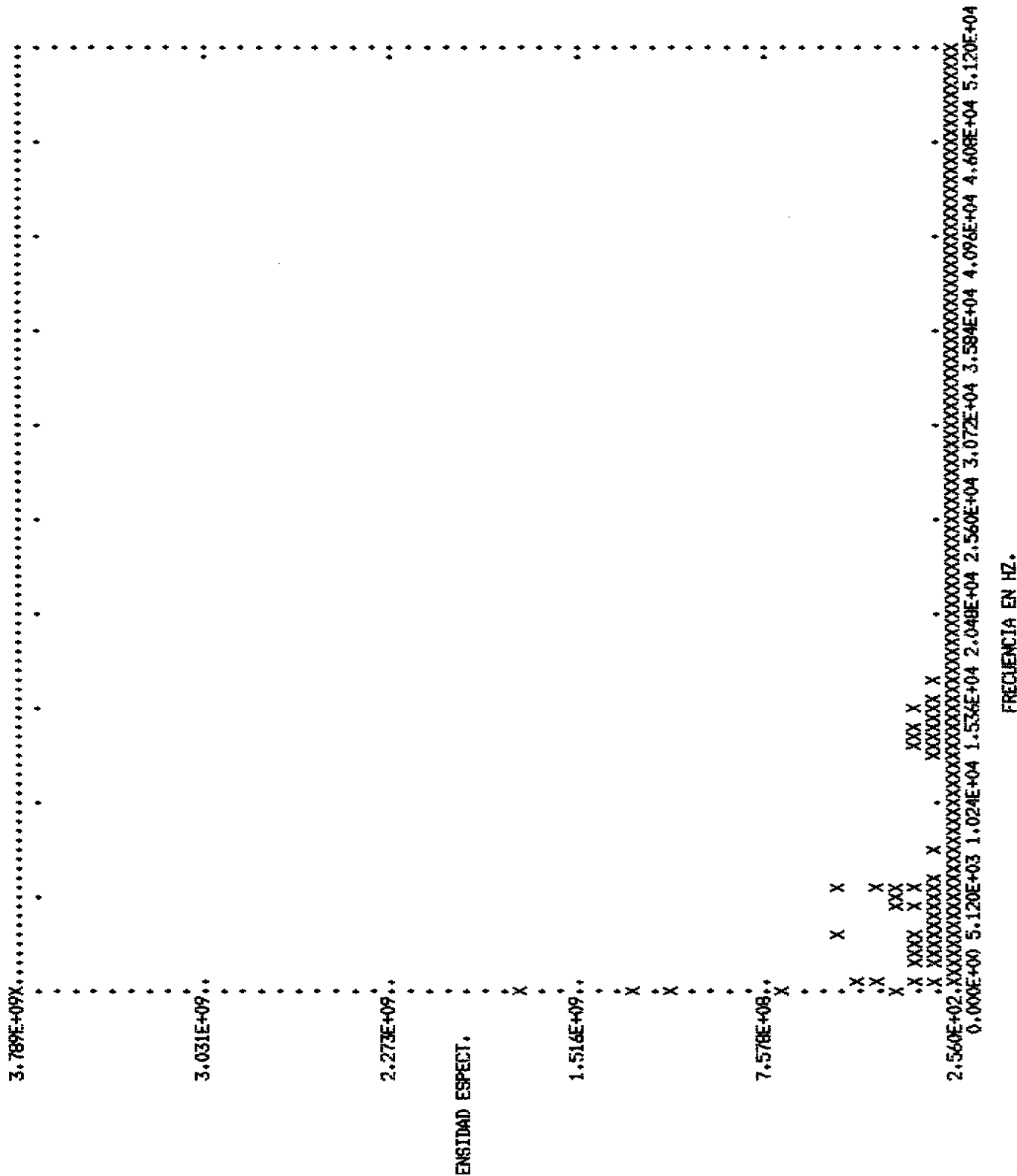


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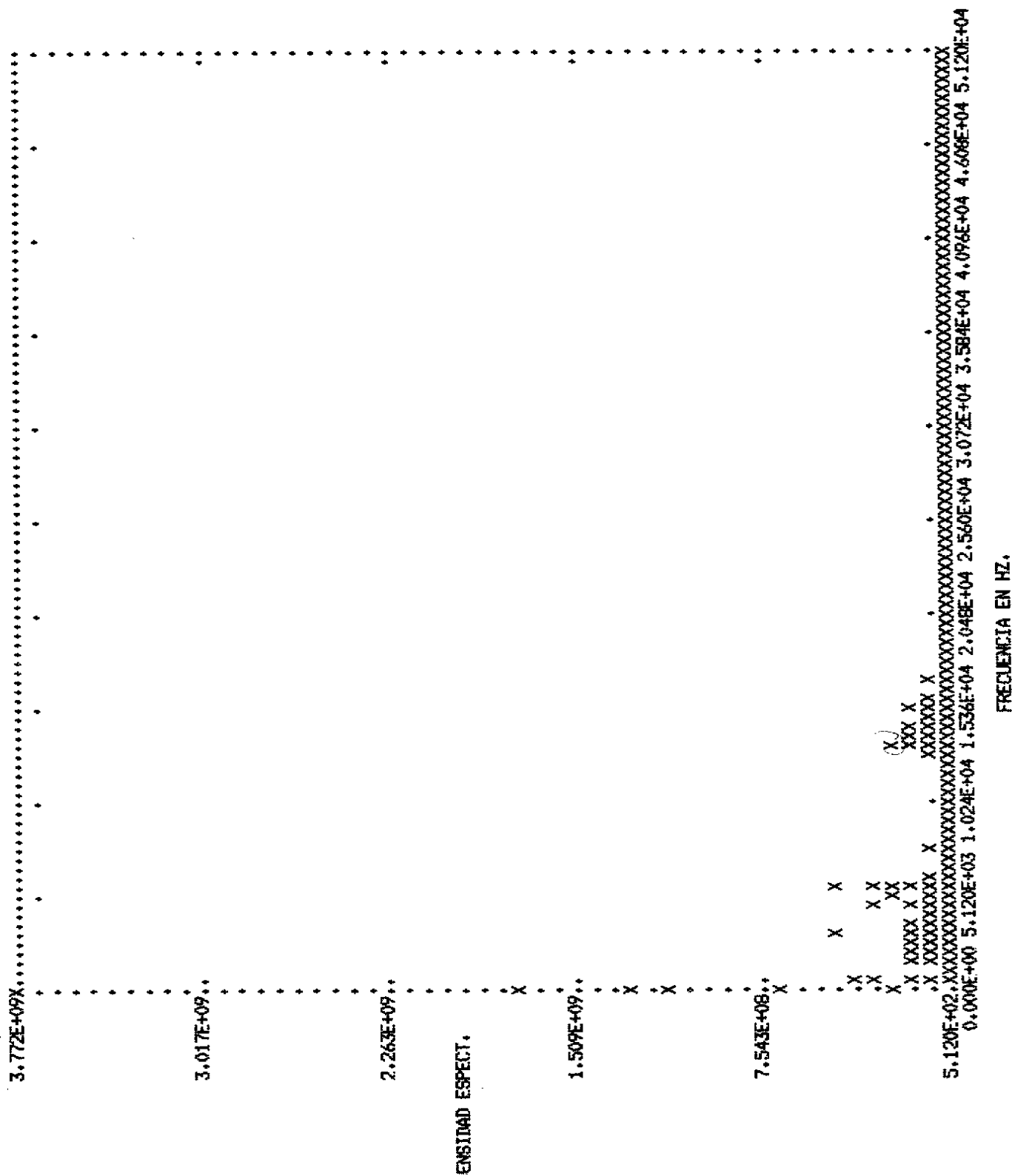
RAMA 2, TRAMO 1 CON 1053 PARES DE VALORES
(IC1= 2)
DENSIDAD ESPECTRAL DE POTENCIA DE LA FUNCION TEMPORAL REDUCIDA

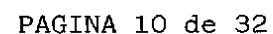


RAWA 2, TRAMO 1 CON 1053 PARES DE VALORES
(IC1= 2)
DENSIDAD ESPECTRAL DE POTENCIA DE LA FUNCION TEMPORAL REDUCIDA

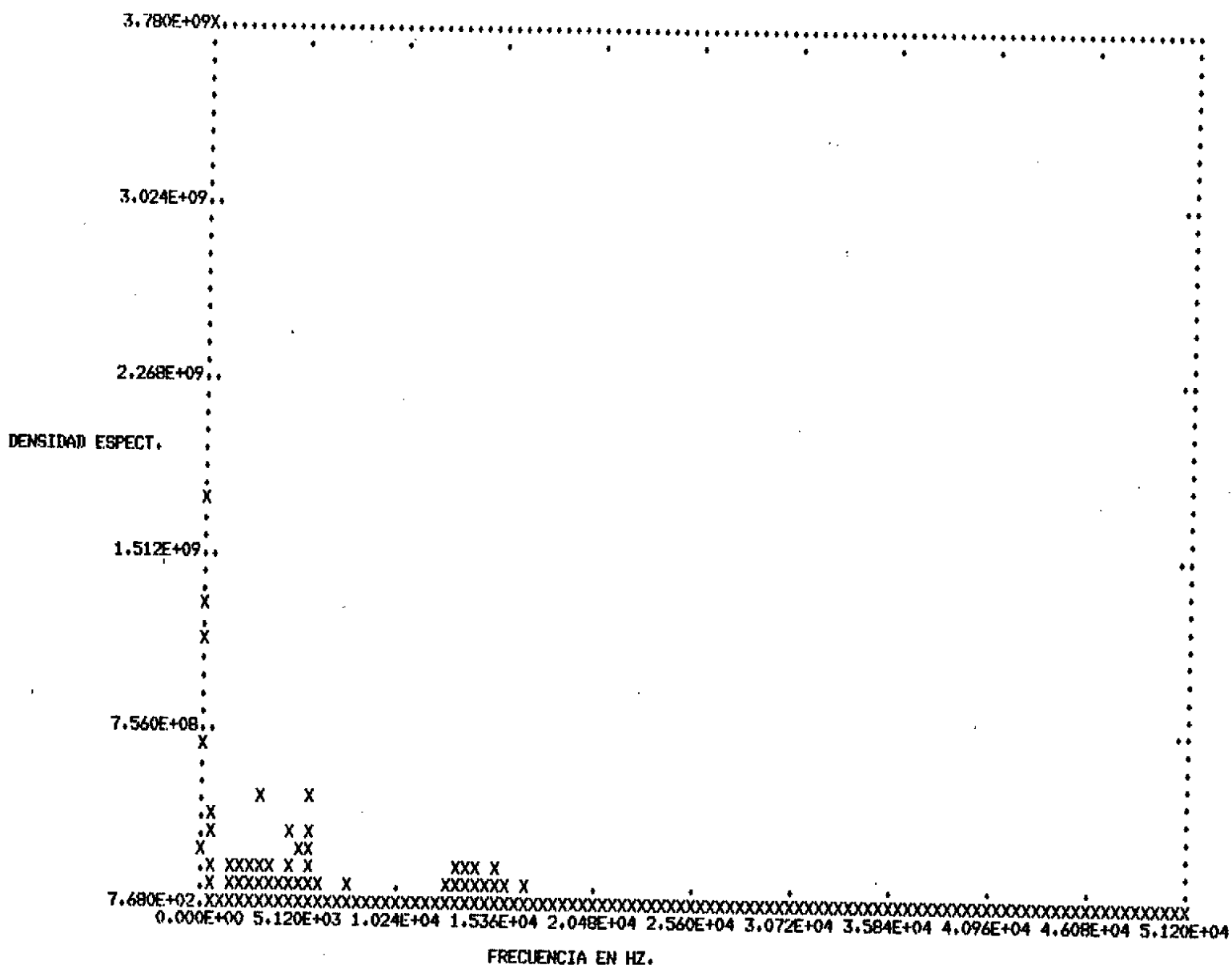


LAN: IKILLU-315117M IF:
 RAMA 2, TRAMO 1 CON 1053 PARES DE VALORES
 (ICI= 2)
 DENSIDAD ESPECTRAL DE POTENCIA DE LA FUNCION TEMPORAL REDUCIDA





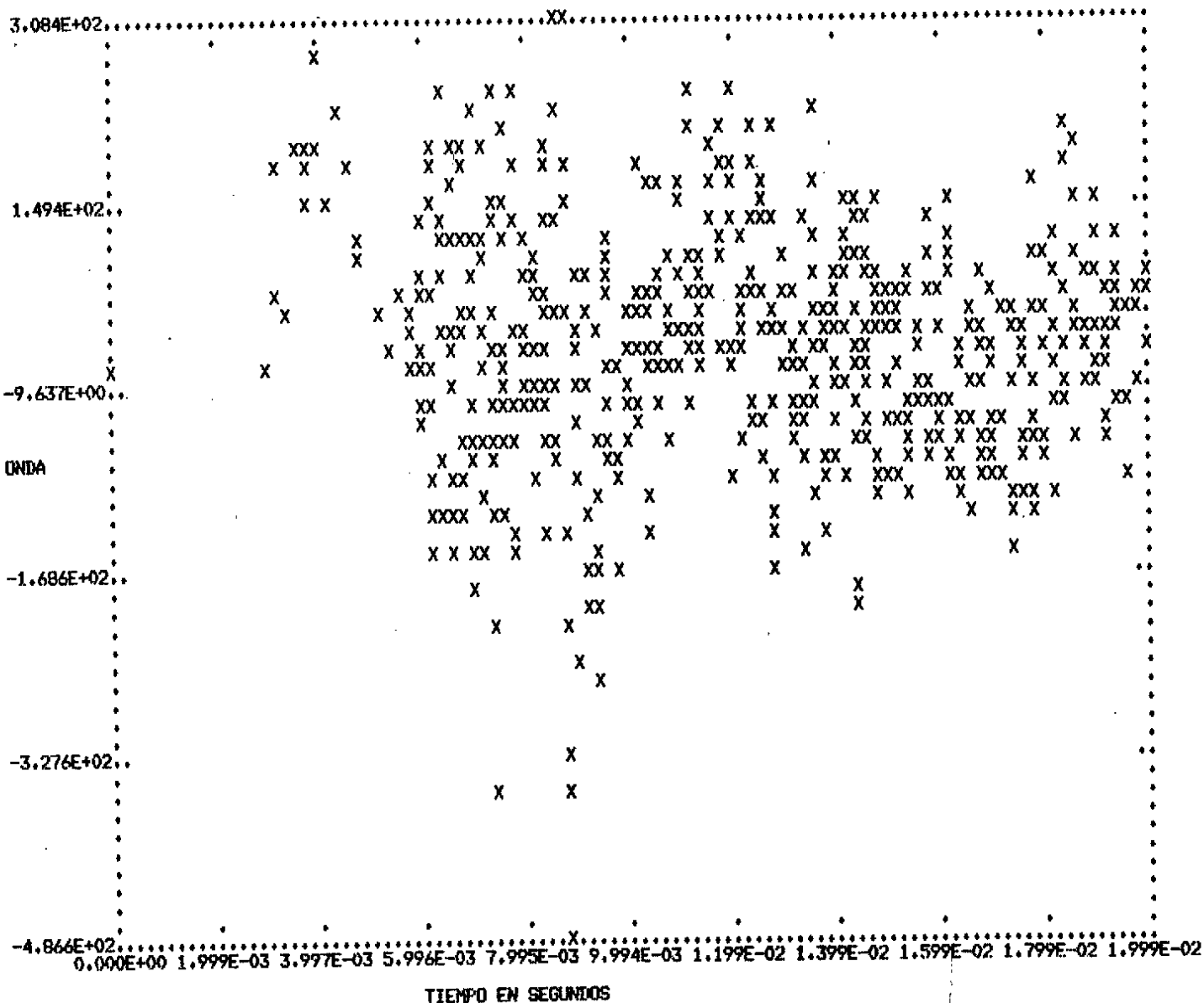
C.N.TRILLO-SISTEMA YP,
RAMA 2, TRAMO 1 CON 1053 PARES DE VALORES
(IC1= 2)
DENSIDAD ESPECTRAL DE POTENCIA DE LA FUNCION TEMPORAL ORIGINAL





LFUERZA REVISION 1.

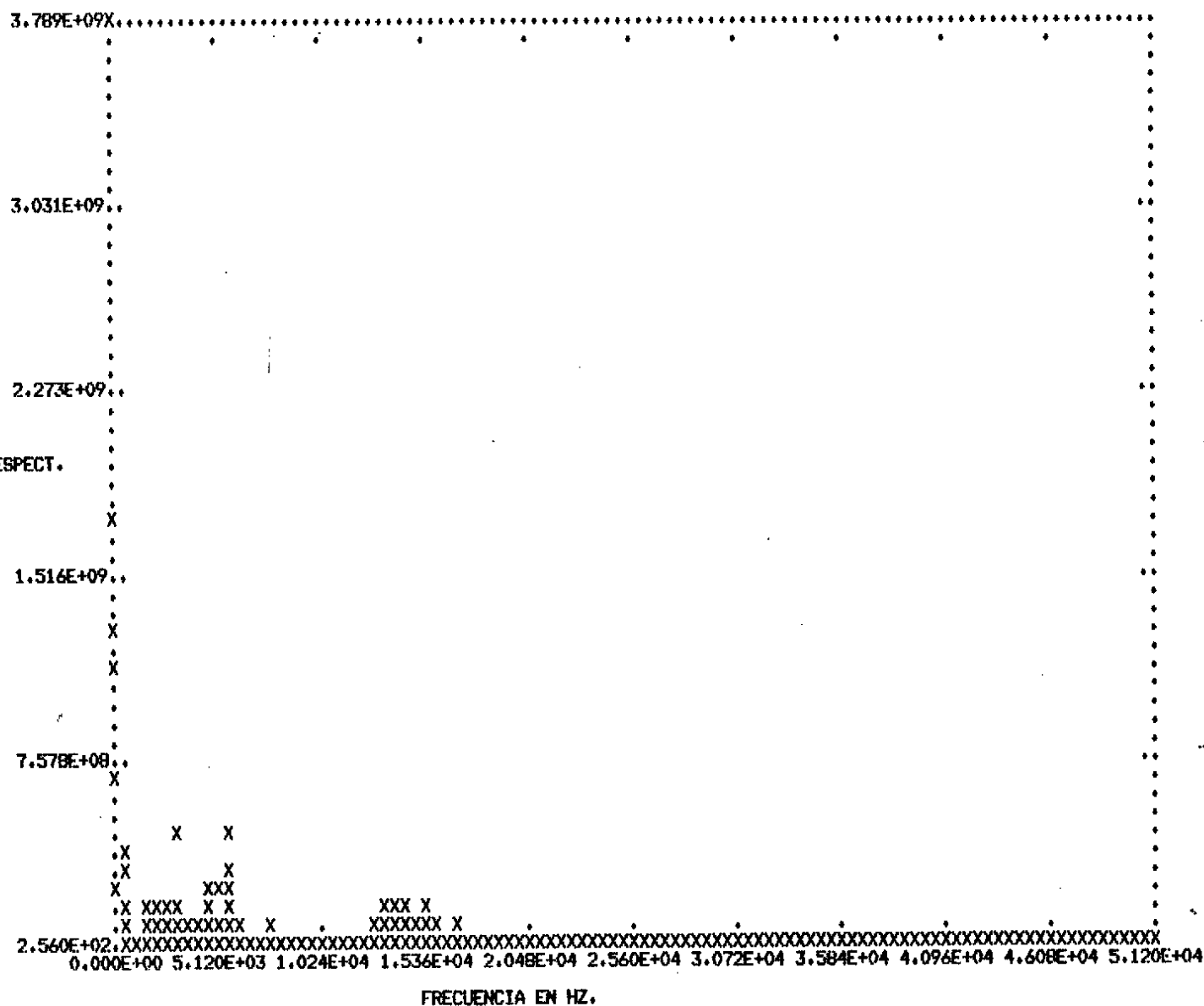
C.N.TRILLO-SISTEMA YP.
RAMA 2, TRAMO 1 CON 1053 PARES DE VALORES
(ICI= 2)
FUNCION TEMPORAL REDUCIDA





LFUERZA REVISION 1.

C.N. TRILLO-SISTEMA YP.
RAMA 2, TRAMO 1 CON 1053 PARES DE VALORES
(IC1= 2)
DENSIDAD ESPECTRAL DE POTENCIA DE LA FUNCION TEMPORAL REDUCIDA



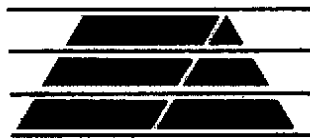


LFUERZA REVISION 1.

C.N.TRILLO-SISTEMA YP,
DATOS DE ENTRADA PARA AGPIPE

RAMA 2 ,TRAMO 1 CON 1053 PUNTOS ORIGINALES

TIME FORCE	1	0.00000	0.	0.00306	0.	0.00308	4.
TIME FORCE	1	0.00317	183.	0.00319	188.	0.00329	75.
TIME FORCE	1	0.00344	56.	0.00355	196.	0.00370	153.
TIME FORCE	1	0.00382	195.	0.00388	180.	0.00399	271.
TIME FORCE	1	0.00408	203.	0.00424	153.	0.00435	233.
TIME FORCE	1	0.00450	178.	0.00464	187.	0.00477	107.
TIME FORCE	1	0.00488	124.	0.00517	55.	0.00547	25.
TIME FORCE	1	0.00568	62.	0.00578	2.	0.00581	41.
TIME FORCE	1	0.00583	0.	0.00585	2.	0.00587	60.
TIME FORCE	1	0.00589	51.	0.00591	-25.	0.00593	0.
TIME FORCE	1	0.00595	90.	0.00597	66.	0.00598	-29.
TIME FORCE	1	0.00600	16.	0.00602	133.	0.00604	85.
TIME FORCE	1	0.00606	-45.	0.00608	11.	0.00610	151.
TIME FORCE	1	0.00612	73.	0.00614	-84.	0.00616	3.
TIME FORCE	1	0.00617	175.	0.00619	73.	0.00621	-115.
TIME FORCE	1	0.00623	5.	0.00625	197.	0.00627	-28.
TIME FORCE	1	0.00629	-160.	0.00633	131.	0.00635	44.
TIME FORCE	1	0.00636	-80.	0.00638	113.	0.00640	250.
TIME FORCE	1	0.00644	-116.	0.00648	85.	0.00650	-118.
TIME FORCE	1	0.00652	-128.	0.00654	198.	0.00655	165.
TIME FORCE	1	0.00657	18.	0.00659	-5.	0.00661	120.
TIME FORCE	1	0.00663	-83.	0.00665	-158.	0.00667	110.
TIME FORCE	1	0.00669	33.	0.00671	58.	0.00673	178.
TIME FORCE	1	0.00674	125.	0.00676	-64.	0.00678	-88.
TIME FORCE	1	0.00680	37.	0.00684	-121.	0.00688	192.
TIME FORCE	1	0.00690	119.	0.00692	-74.	0.00693	92.
TIME FORCE	1	0.00695	53.	0.00697	-153.	0.00699	-186.
TIME FORCE	1	0.00701	-59.	0.00703	-22.	0.00705	-51.
TIME FORCE	1	0.00707	224.	0.00711	124.	0.00712	202.
TIME FORCE	1	0.00716	-149.	0.00718	-103.	0.00720	2.
TIME FORCE	1	0.00722	0.	0.00724	-57.	0.00726	97.
TIME FORCE	1	0.00728	39.	0.00730	53.	0.00731	142.
TIME FORCE	1	0.00733	-80.	0.00735	-50.	0.00737	239.
TIME FORCE	1	0.00739	19.	0.00741	-353.	0.00743	-32.
TIME FORCE	1	0.00745	133.	0.00747	-218.	0.00749	-121.
TIME FORCE	1	0.00750	153.	0.00752	119.	0.00754	-119.
TIME FORCE	1	0.00756	18.	0.00758	215.	0.00760	-29.
TIME FORCE	1	0.00762	-52.	0.00764	6.	0.00769	-8.
TIME FORCE	1	0.00771	39.	0.00773	183.	0.00775	243.
TIME FORCE	1	0.00777	137.	0.00779	-26.	0.00783	-55.
TIME FORCE	1	0.00785	-155.	0.00788	-143.	0.00792	-14.
TIME FORCE	1	0.00796	-30.	0.00798	43.	0.00800	80.
TIME FORCE	1	0.00802	83.	0.00806	20.	0.00807	117.
TIME FORCE	1	0.00811	65.	0.00815	104.	0.00817	-15.
TIME FORCE	1	0.00819	-85.	0.00821	-30.	0.00823	-28.
TIME FORCE	1	0.00825	24.	0.00826	-25.	0.00828	81.
TIME FORCE	1	0.00830	134.	0.00832	-20.	0.00834	-131.
TIME FORCE	1	0.00836	-54.	0.00838	61.	0.00840	-30.
TIME FORCE	1	0.00842	-11.	0.00844	188.	0.00845	191.
TIME FORCE	1	0.00847	78.	0.00849	27.	0.00851	56.
TIME FORCE	1	0.00853	128.	0.00855	-14.	0.00857	-71.
TIME FORCE	1	0.00861	234.	0.00863	-16.	0.00864	-55.
TIME FORCE	1	0.00866	304.	0.00870	-482.	0.00872	-356.
TIME FORCE	1	0.00874	-135.	0.00876	-335.	0.00878	-218.
TIME FORCE	1	0.00880	305.	0.00882	300.	0.00883	181.
TIME FORCE	1	0.00887	151.	0.00889	48.	0.00893	-9.
TIME FORCE	1	0.00895	-16.	0.00897	83.	0.00899	15.
TIME FORCE	1	0.00901	-90.	0.00902	44.	0.00904	-35.
TIME FORCE	1	0.00906	-255.	0.00908	-252.	0.00910	-167.



TIME FORCE	1	0.00914	-200.	0.00916	50.	0.00918	85.
TIME FORCE	1	0.00920	52.	0.00923	86.	0.00927	-123.
TIME FORCE	1	0.00929	-16.	0.00931	-55.	0.00933	-196.
TIME FORCE	1	0.00935	-170.	0.00937	-98.	0.00939	-145.
TIME FORCE	1	0.00940	-264.	0.00942	-106.	0.00944	-54.
TIME FORCE	1	0.00946	-98.	0.00948	44.	0.00950	120.
TIME FORCE	1	0.00952	87.	0.00954	0.	0.00956	100.
TIME FORCE	1	0.00958	77.	0.00959	-58.		
TIME FORCE	2	0.00000	0.	0.00959	0.	0.00960	-58.
TIME FORCE	2	0.00961	-22.	0.00965	-20.	0.00967	-69.
TIME FORCE	2	0.00975	-92.	0.00977	-164.	0.00980	-75.
TIME FORCE	2	0.00982	-81.	0.00984	2.	0.00994	17.
TIME FORCE	2	0.00996	-22.	0.00997	59.	0.01001	-4.
TIME FORCE	2	0.01003	-11.	0.01005	28.	0.01007	17.
TIME FORCE	2	0.01009	-61.	0.01011	21.	0.01013	62.
TIME FORCE	2	0.01016	-46.	0.01018	-18.	0.01020	46.
TIME FORCE	2	0.01022	-26.	0.01024	16.	0.01028	179.
TIME FORCE	2	0.01030	164.	0.01032	74.	0.01034	59.
TIME FORCE	2	0.01035	5.	0.01037	-99.	0.01039	-144.
TIME FORCE	2	0.01043	29.	0.01047	13.	0.01049	70.
TIME FORCE	2	0.01051	63.	0.01054	1.	0.01056	18.
TIME FORCE	2	0.01058	-24.	0.01062	82.	0.01068	171.
TIME FORCE	2	0.01072	2.	0.01075	-62.	0.01079	1.
TIME FORCE	2	0.01083	100.	0.01085	49.	0.01087	38.
TIME FORCE	2	0.01091	90.	0.01094	0.	0.01096	31.
TIME FORCE	2	0.01102	2.	0.01104	151.	0.01106	163.
TIME FORCE	2	0.01110	40.	0.01113	16.	0.01115	-26.
TIME FORCE	2	0.01117	66.	0.01119	243.	0.01123	246.
TIME FORCE	2	0.01125	207.	0.01127	209.	0.01129	95.
TIME FORCE	2	0.01130	29.	0.01132	53.	0.01134	1.
TIME FORCE	2	0.01136	43.	0.01138	11.	0.01140	77.
TIME FORCE	2	0.01142	97.	0.01148	87.	0.01149	134.
TIME FORCE	2	0.01151	65.	0.01159	136.	0.01161	62.
TIME FORCE	2	0.01163	75.	0.01165	172.	0.01168	204.
TIME FORCE	2	0.01170	177.	0.01172	207.	0.01176	113.
TIME FORCE	2	0.01178	17.	0.01182	107.	0.01184	24.
TIME FORCE	2	0.01187	182.	0.01189	130.	0.01191	21.
TIME FORCE	2	0.01195	179.	0.01197	-94.	0.01199	6.
TIME FORCE	2	0.01201	238.	0.01203	158.	0.01205	23.
TIME FORCE	2	0.01206	188.	0.01208	242.	0.01210	20.
TIME FORCE	2	0.01212	36.	0.01214	112.	0.01216	54.
TIME FORCE	2	0.01225	73.	0.01227	-62.	0.01229	-36.
TIME FORCE	2	0.01231	140.	0.01233	65.	0.01235	81.
TIME FORCE	2	0.01237	183.	0.01239	219.	0.01241	179.
TIME FORCE	2	0.01243	72.	0.01246	-22.	0.01250	-41.
TIME FORCE	2	0.01252	-36.	0.01256	151.	0.01258	167.
TIME FORCE	2	0.01260	67.	0.01263	140.	0.01267	-68.
TIME FORCE	2	0.01269	32.	0.01271	210.	0.01273	37.
TIME FORCE	2	0.01275	-28.	0.01277	220.	0.01279	134.
TIME FORCE	2	0.01281	-121.	0.01282	-132.	0.01284	52.
TIME FORCE	2	0.01286	-82.	0.01288	-169.	0.01290	46.
TIME FORCE	2	0.01292	95.	0.01300	70.	0.01305	5.
TIME FORCE	2	0.01307	95.	0.01309	72.	0.01311	1.
TIME FORCE	2	0.01313	64.	0.01319	-57.	0.01320	-39.
TIME FORCE	2	0.01322	23.	0.01324	-24.	0.01326	5.
TIME FORCE	2	0.01330	126.	0.01332	-19.	0.01334	-66.
TIME FORCE	2	0.01336	-19.	0.01339	-153.	0.01343	33.
TIME FORCE	2	0.01347	-37.	0.01349	13.	0.01353	-4.
TIME FORCE	2	0.01355	-28.	0.01357	-112.	0.01358	88.
TIME FORCE	2	0.01360	172.	0.01362	54.	0.01364	18.
TIME FORCE	2	0.01366	225.	0.01368	113.	0.01370	-132.
TIME FORCE	2	0.01372	-88.	0.01374	19.	0.01377	-70.
TIME FORCE	2	0.01379	49.	0.01381	43.	0.01387	-82.
TIME FORCE	2	0.01391	-3.	0.01393	2.	0.01395	66.
TIME FORCE	2	0.01396	31.	0.01398	84.	0.01400	52.
TIME FORCE	2	0.01402	-40.	0.01404	-72.	0.01406	-3.
TIME FORCE	2	0.01408	14.	0.01410	-91.	0.01414	154.



TIME FORCE	2	0.01415	122.	0.01417	38.	0.01419	93.
TIME FORCE	2	0.01421	96.	0.01423	39.	0.01427	-16.
TIME FORCE	2	0.01431	96.	0.01433	2.	0.01434	30.
TIME FORCE	2	0.01436	144.	0.01438	131.	0.01440	-50.
TIME FORCE	2	0.01442	-23.	0.01444	49.	0.01446	-181.
TIME FORCE	2	0.01448	-203.	0.01450	-11.	0.01452	3.
TIME FORCE	2	0.01453	-49.	0.01455	15.	0.01457	138.
TIME FORCE	2	0.01459	32.	0.01461	1.	0.01463	84.
TIME FORCE	2	0.01465	107.	0.01469	-51.		
TIME FORCE	3	0.00000	0.	0.01469	0.	0.01470	-51.
TIME FORCE	3	0.01471	65.	0.01472	77.	0.01474	44.
TIME FORCE	3	0.01476	61.	0.01478	146.	0.01480	91.
TIME FORCE	3	0.01482	-83.	0.01484	-97.	0.01486	-67.
TIME FORCE	3	0.01488	-101.	0.01490	-93.	0.01493	69.
TIME FORCE	3	0.01497	-37.	0.01499	51.	0.01501	31.
TIME FORCE	3	0.01505	-95.	0.01507	-11.	0.01509	-16.
TIME FORCE	3	0.01510	-84.	0.01512	-47.	0.01514	50.
TIME FORCE	3	0.01516	44.	0.01518	-38.	0.01522	37.
TIME FORCE	3	0.01526	-1.	0.01528	65.	0.01529	89.
TIME FORCE	3	0.01531	-25.	0.01533	-71.	0.01537	-44.
TIME FORCE	3	0.01539	-104.	0.01543	67.	0.01548	-56.
TIME FORCE	3	0.01550	26.	0.01552	-5.	0.01560	28.
TIME FORCE	3	0.01564	-19.	0.01566	-14.	0.01567	42.
TIME FORCE	3	0.01571	-54.	0.01573	-69.	0.01575	-4.
TIME FORCE	3	0.01579	-18.	0.01583	127.	0.01586	73.
TIME FORCE	3	0.01588	109.	0.01592	33.	0.01594	-60.
TIME FORCE	3	0.01596	-34.	0.01598	-60.	0.01602	-50.
TIME FORCE	3	0.01604	-21.	0.01605	69.	0.01609	-83.
TIME FORCE	3	0.01613	-30.	0.01615	-89.	0.01617	-71.
TIME FORCE	3	0.01619	89.	0.01621	145.	0.01624	95.
TIME FORCE	3	0.01626	119.	0.01628	93.	0.01630	0.
TIME FORCE	3	0.01634	21.	0.01638	-84.	0.01640	-107.
TIME FORCE	3	0.01642	-59.	0.01645	-48.	0.01651	54.
TIME FORCE	3	0.01655	-16.	0.01657	45.	0.01662	-115.
TIME FORCE	3	0.01664	-46.	0.01668	-43.	0.01672	39.
TIME FORCE	3	0.01674	24.	0.01676	-54.	0.01678	-83.
TIME FORCE	3	0.01680	-80.	0.01681	-15.	0.01685	-61.
TIME FORCE	3	0.01687	81.	0.01689	68.	0.01691	-85.
TIME FORCE	3	0.01693	-56.	0.01695	28.	0.01697	-67.
TIME FORCE	3	0.01699	-95.	0.01700	10.	0.01704	-48.
TIME FORCE	3	0.01706	1.	0.01710	-88.	0.01712	-82.
TIME FORCE	3	0.01714	-38.	0.01716	-82.	0.01719	48.
TIME FORCE	3	0.01731	-104.	0.01735	34.	0.01737	36.
TIME FORCE	3	0.01738	-13.	0.01740	59.	0.01742	-14.
TIME FORCE	3	0.01744	-124.	0.01746	-145.	0.01752	-103.
TIME FORCE	3	0.01754	-1.	0.01756	45.	0.01759	12.
TIME FORCE	3	0.01761	-59.	0.01765	16.	0.01767	-66.
TIME FORCE	3	0.01769	25.	0.01771	160.	0.01773	103.
TIME FORCE	3	0.01775	-60.	0.01776	61.	0.01778	50.
TIME FORCE	3	0.01780	-106.	0.01782	-123.	0.01784	-45.
TIME FORCE	3	0.01786	-15.	0.01788	-42.	0.01792	109.
TIME FORCE	3	0.01794	47.	0.01801	-60.	0.01803	-73.
TIME FORCE	3	0.01805	14.	0.01811	43.	0.01814	-29.
TIME FORCE	3	0.01818	4.	0.01820	-101.	0.01824	121.
TIME FORCE	3	0.01828	88.	0.01830	186.	0.01832	215.
TIME FORCE	3	0.01833	30.	0.01835	-3.	0.01837	23.
TIME FORCE	3	0.01839	-22.	0.01843	-24.	0.01847	67.
TIME FORCE	3	0.01849	23.	0.01851	-65.	0.01854	39.
TIME FORCE	3	0.01856	-61.	0.01858	-53.	0.01860	109.
TIME FORCE	3	0.01862	190.	0.01866	53.	0.01868	153.
TIME FORCE	3	0.01871	22.	0.01873	27.	0.01875	79.
TIME FORCE	3	0.01877	91.	0.01879	21.	0.01881	44.
TIME FORCE	3	0.01885	-14.	0.01887	46.	0.01890	7.
TIME FORCE	3	0.01894	110.	0.01896	35.	0.01898	31.
TIME FORCE	3	0.01900	150.	0.01902	87.	0.01904	-14.
TIME FORCE	3	0.01906	-11.	0.01908	43.	0.01909	-37.
TIME FORCE	3	0.01911	-61.	0.01913	16.	0.01915	8.



TIME FORCE	3	0.01917	42.	0.01921	5.	0.01925	64.
TIME FORCE	3	0.01928	22.	0.01930	84.	0.01934	38.
TIME FORCE	3	0.01936	124.	0.01940	73.	0.01942	88.
TIME FORCE	3	0.01944	60.	0.01946	-26.	0.01949	-30.
TIME FORCE	3	0.01951	-93.	0.01963	53.	0.01968	-18.
TIME FORCE	3	0.01978	63.	0.01982	54.	0.01985	-6.
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TIME FORCE	3	0.01997	80.	0.01999	68.		

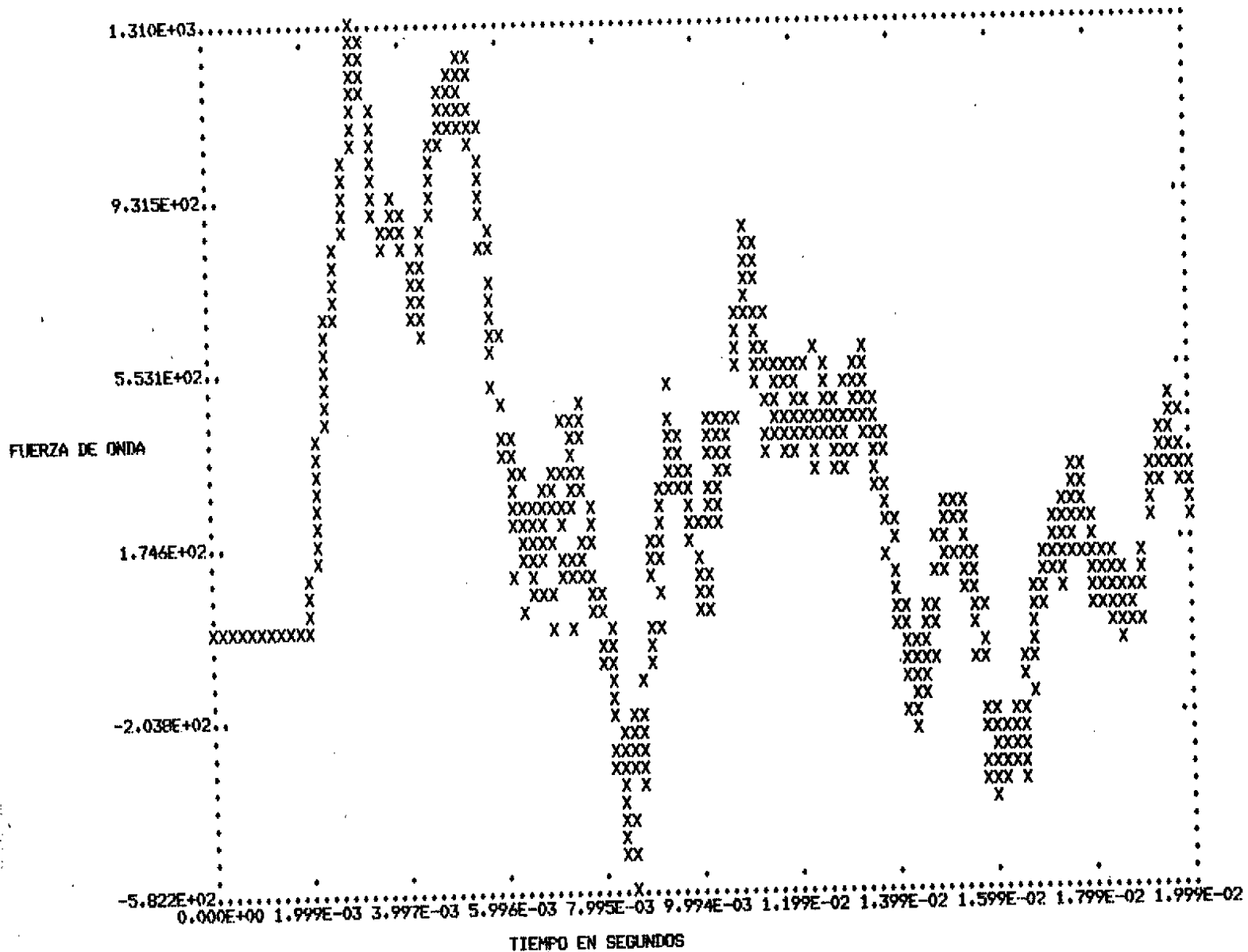
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LFUERZA REVISION 1.

C.N. TRILLO-SISTEMA YP.
RAMA 2, TRAMO 2 CON 1053 PARES DE VALORES
(IC1= 3)
FUNCION TEMPORAL ORIGINAL.



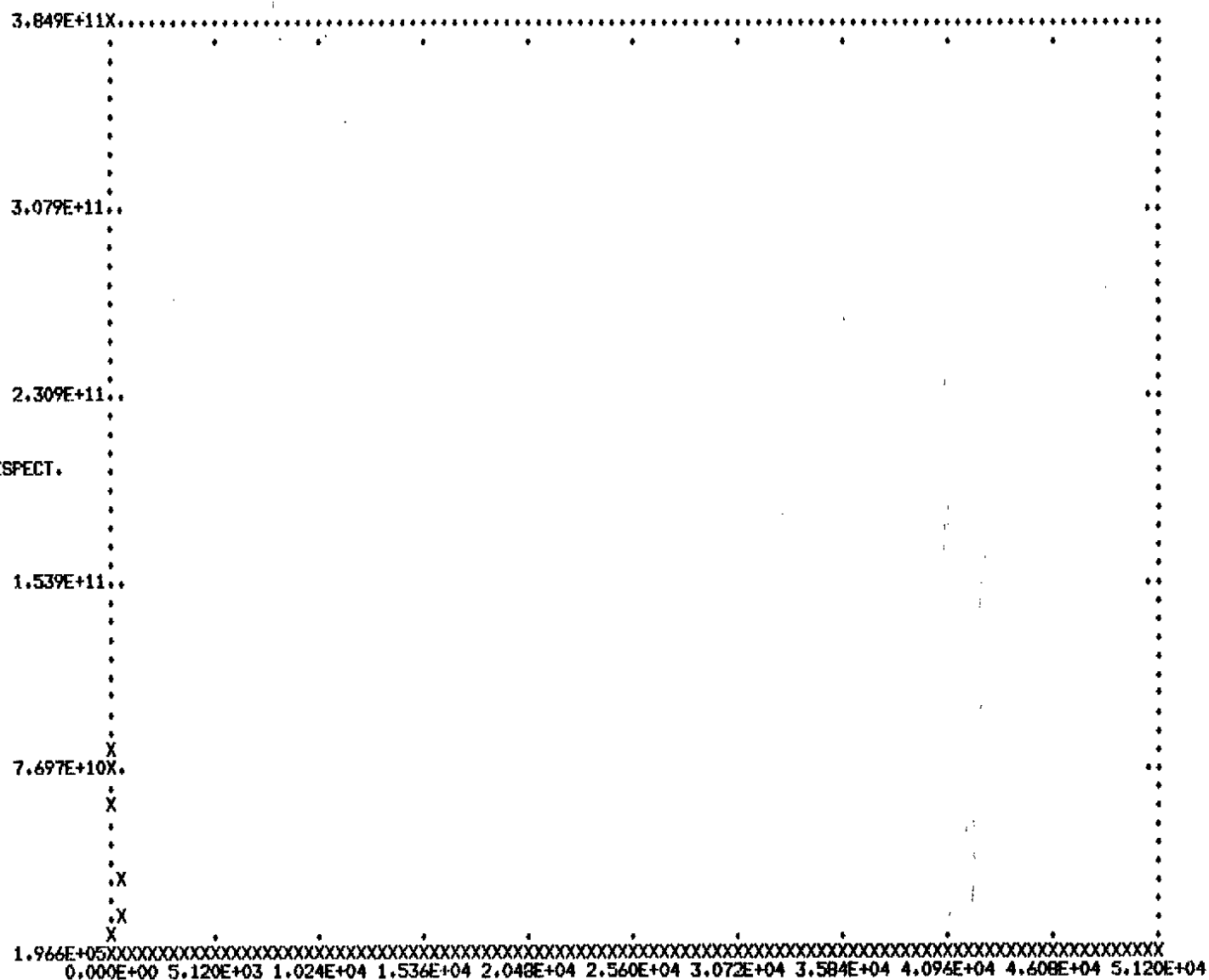
LFUERZA REVISION 1.

C.N.TRILLO-SISTEMA YP.

RAMA 2, TRAMO 2 CON 1053 PARES DE VALORES

(IC1= 3)

DENSIDAD ESPECTRAL DE POTENCIA DE LA FUNCION TEMPORAL ORIGINAL

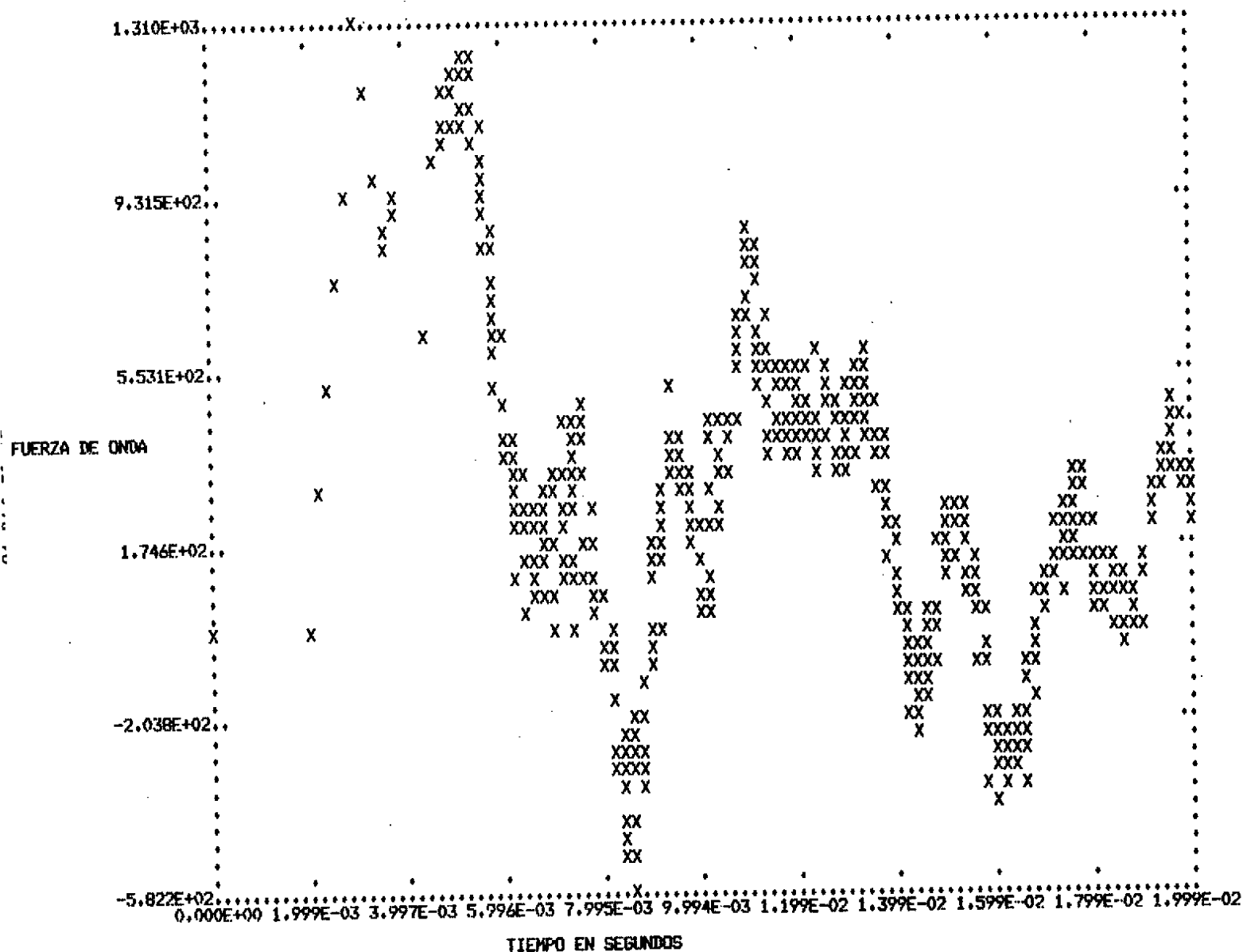


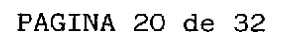
FRECUENCIA EN HZ.



LFUERZA REVISION 1.

C.N.TRILLO-SISTEMA YP.
RAMA 2, TRAMO 2 CON 1053 PARES DE VALORES
(IC1= 3)
FUNCION TEMPORAL REDUCIDA



[illegible]



LFUERZA REVISION 1.

C.N.TRILLO-SISTEMA YP.
DATOS DE ENTRADA PARA AGPIPE

RAMA 2 ,TRAMO 2 CON 1053 PUNTOS ORIGINALES							
TIME FORCE	4	0.00000	0.	0.00203	0.	0.00220	301.
TIME FORCE	4	0.00236	517.	0.00258	750.	0.00283	917.
TIME FORCE	4	0.00308	1297.	0.00329	1154.	0.00342	967.
TIME FORCE	4	0.00355	821.	0.00365	867.	0.00382	880.
TIME FORCE	4	0.00388	920.	0.00433	647.	0.00460	1006.
TIME FORCE	4	0.00473	1042.	0.00477	1094.	0.00481	1072.
TIME FORCE	4	0.00484	1144.	0.00488	1084.	0.00492	1159.
TIME FORCE	4	0.00496	1087.	0.00500	1181.	0.00503	1094.
TIME FORCE	4	0.00507	1201.	0.00511	1100.	0.00515	1227.
TIME FORCE	4	0.00519	1115.	0.00521	1198.	0.00524	1120.
TIME FORCE	4	0.00528	1122.	0.00530	1216.	0.00534	1131.
TIME FORCE	4	0.00536	1234.	0.00538	1205.	0.00540	1126.
TIME FORCE	4	0.00547	1045.	0.00549	1133.	0.00551	1082.
TIME FORCE	4	0.00553	985.	0.00560	902.	0.00562	990.
TIME FORCE	4	0.00564	931.	0.00566	823.	0.00568	916.
TIME FORCE	4	0.00570	860.	0.00572	737.	0.00574	703.
TIME FORCE	4	0.00576	698.	0.00578	803.	0.00579	719.
TIME FORCE	4	0.00581	592.	0.00583	734.	0.00585	679.
TIME FORCE	4	0.00587	515.	0.00589	633.	0.00591	620.
TIME FORCE	4	0.00593	487.	0.00595	408.	0.00597	383.
TIME FORCE	4	0.00598	412.	0.00600	393.	0.00602	459.
TIME FORCE	4	0.00606	346.	0.00608	476.	0.00612	234.
TIME FORCE	4	0.00614	294.	0.00616	265.	0.00617	322.
TIME FORCE	4	0.00623	207.	0.00625	113.	0.00627	402.
TIME FORCE	4	0.00629	373.	0.00631	197.	0.00633	341.
TIME FORCE	4	0.00635	251.	0.00636	221.	0.00638	146.
TIME FORCE	4	0.00640	33.	0.00642	209.	0.00644	234.
TIME FORCE	4	0.00646	153.	0.00650	239.	0.00652	219.
TIME FORCE	4	0.00654	47.	0.00655	110.	0.00657	228.
TIME FORCE	4	0.00659	220.	0.00661	130.	0.00665	211.
TIME FORCE	4	0.00667	84.	0.00669	217.	0.00671	274.
TIME FORCE	4	0.00673	167.	0.00676	233.	0.00680	231.
TIME FORCE	4	0.00682	136.	0.00684	194.	0.00686	198.
TIME FORCE	4	0.00688	48.	0.00690	185.	0.00692	192.
TIME FORCE	4	0.00693	-33.	0.00695	172.	0.00701	317.
TIME FORCE	4	0.00703	271.	0.00705	289.	0.00707	62.
TIME FORCE	4	0.00711	250.	0.00712	113.	0.00714	264.
TIME FORCE	4	0.00716	229.	0.00718	269.	0.00720	428.
TIME FORCE	4	0.00722	127.	0.00724	195.	0.00726	328.
TIME FORCE	4	0.00730	309.	0.00731	0.	0.00733	154.
TIME FORCE	4	0.00735	410.	0.00737	105.	0.00739	242.
TIME FORCE	4	0.00741	429.	0.00743	287.	0.00745	304.
TIME FORCE	4	0.00747	259.	0.00749	374.	0.00750	384.
TIME FORCE	4	0.00752	157.	0.00754	438.	0.00756	478.
TIME FORCE	4	0.00758	324.	0.00760	469.	0.00762	479.
TIME FORCE	4	0.00766	107.	0.00769	184.	0.00775	7.
TIME FORCE	4	0.00777	55.	0.00779	241.	0.00783	167.
TIME FORCE	4	0.00785	173.	0.00787	102.	0.00794	44.
TIME FORCE	4	0.00796	78.	0.00800	-45.	0.00804	-84.
TIME FORCE	4	0.00809	-104.	0.00811	-15.	0.00813	-43.
TIME FORCE	4	0.00817	-171.	0.00819	-153.	0.00821	-75.
TIME FORCE	4	0.00825	-335.	0.00826	-180.	0.00828	-288.
TIME FORCE	4	0.00830	-294.	0.00832	-242.	0.00834	-369.
TIME FORCE	4	0.00836	-336.	0.00840	-460.	0.00842	-413.
TIME FORCE	4	0.00844	-496.	0.00845	-488.	0.00847	-330.
TIME FORCE	4	0.00851	-434.	0.00853	-433.	0.00855	-216.
TIME FORCE	4	0.00857	-270.	0.00859	-576.	0.00863	-315.
TIME FORCE	4	0.00864	-498.	0.00866	-569.	0.00868	-248.
TIME FORCE	4	0.00870	-131.	0.00874	-305.	0.00876	-197.



TIME FORCE	4	0.00878	-142.	0.00882	-326.	0.00883	-339.
TIME FORCE	4	0.00885	-273.	0.00887	-308.	0.00891	-75.
TIME FORCE	4	0.00893	-58.	0.00895	0.	0.00897	-47.
TIME FORCE	4	0.00899	-14.	0.00901	110.	0.00902	146.
TIME FORCE	4	0.00904	109.	0.00908	184.	0.00910	135.
TIME FORCE	4	0.00914	254.	0.00916	2.	0.00918	-22.
TIME FORCE	4	0.00921	171.	0.00923	224.	0.00927	298.
TIME FORCE	4	0.00929	215.	0.00933	413.		
TIME FORCE	5	0.00935	0.	0.00937	0.	0.00934	413.
TIME FORCE	5	0.00942	339.	0.00944	351.	0.00940	531.
TIME FORCE	5	0.00948	388.	0.00950	336.	0.00946	413.
TIME FORCE	5	0.00956	413.	0.00958	403.	0.00952	344.
TIME FORCE	5	0.00969	368.	0.00973	292.	0.00961	381.
TIME FORCE	5	0.00977	294.	0.00978	313.	0.00975	236.
TIME FORCE	5	0.00982	230.	0.00984	323.	0.00980	224.
TIME FORCE	5	0.00990	197.	0.00992	279.	0.00988	162.
TIME FORCE	5	0.00996	197.	0.00997	145.	0.00994	11.
TIME FORCE	5	0.01005	71.	0.01007	42.	0.01001	153.
TIME FORCE	5	0.01011	5.	0.01013	43.	0.01009	130.
TIME FORCE	5	0.01016	31.	0.01018	60.	0.01015	204.
TIME FORCE	5	0.01022	118.	0.01026	207.	0.01020	396.
TIME FORCE	5	0.01032	435.	0.01034	273.	0.01030	222.
TIME FORCE	5	0.01041	330.	0.01045	332.	0.01035	269.
TIME FORCE	5	0.01051	357.	0.01054	354.	0.01047	444.
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TIME FORCE	5	0.01073	423.	0.01077	443.	0.01072	571.
TIME FORCE	5	0.01081	565.	0.01089	670.	0.01079	583.
TIME FORCE	5	0.01092	630.	0.01094	661.	0.01091	802.
TIME FORCE	5	0.01100	704.	0.01102	682.	0.01096	863.
TIME FORCE	5	0.01110	768.	0.01111	818.	0.01104	694.
TIME FORCE	5	0.01115	773.	0.01119	784.	0.01113	751.
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TIME FORCE	5	0.01136	683.	0.01138	561.	0.01134	492.
TIME FORCE	5	0.01146	559.	0.01149	585.	0.01142	396.
TIME FORCE	5	0.01155	360.	0.01157	390.	0.01153	549.
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TIME FORCE	5	0.01170	450.	0.01172	453.	0.01167	556.
TIME FORCE	5	0.01176	457.	0.01178	566.	0.01174	520.
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TIME FORCE	5	0.01189	431.	0.01191	559.	0.01186	380.
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TIME FORCE	5	0.01212	373.	0.01216	437.	0.01206	427.
TIME FORCE	5	0.01220	492.	0.01224	409.	0.01218	460.
TIME FORCE	5	0.01229	447.	0.01233	557.	0.01227	534.
TIME FORCE	5	0.01237	455.	0.01241	431.	0.01235	321.
TIME FORCE	5	0.01244	393.	0.01246	358.	0.01243	433.
TIME FORCE	5	0.01250	358.	0.01252	446.	0.01248	592.
TIME FORCE	5	0.01258	547.	0.01260	399.	0.01256	468.
TIME FORCE	5	0.01263	415.	0.01265	494.	0.01262	485.
TIME FORCE	5	0.01269	402.	0.01271	517.	0.01267	504.
TIME FORCE	5	0.01275	395.	0.01277	340.	0.01273	439.
TIME FORCE	5	0.01281	459.	0.01284	309.	0.01279	341.
TIME FORCE	5	0.01288	456.	0.01290	363.	0.01286	363.
TIME FORCE	5	0.01296	478.	0.01298	517.	0.01292	353.
TIME FORCE	5	0.01303	423.	0.01305	309.	0.01300	373.
TIME FORCE	5	0.01311	374.	0.01317	428.	0.01307	394.
TIME FORCE	5	0.01320	484.	0.01322	427.	0.01319	550.
TIME FORCE	5	0.01326	504.	0.01328	356.	0.01324	491.
TIME FORCE	5	0.01332	453.	0.01334	352.	0.01330	424.
TIME FORCE	5	0.01339	570.	0.01341	601.	0.01338	456.
TIME FORCE	5	0.01349	520.	0.01351	535.	0.01345	393.
TIME FORCE	5	0.01355	490.	0.01357	397.	0.01353	348.
TIME FORCE	5	0.01362	384.	0.01364	475.	0.01358	420.
					302.	0.01368	399.



TIME FORCE	5	0.01370	386.	0.01372	417.	0.01374	358.
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TIME FORCE	5	0.01414	-94.	0.01415	-126.	0.01417	-43.
TIME FORCE	5	0.01423	-105.	0.01425	-30.	0.01429	-189.
TIME FORCE	5	0.01433	-81.	0.01434	-176.		
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TIME FORCE	6	0.01438	-233.	0.01440	-115.	0.01442	-78.
TIME FORCE	6	0.01444	-217.	0.01446	-93.	0.01448	-41.
TIME FORCE	6	0.01450	-134.	0.01452	-62.	0.01453	-53.
TIME FORCE	6	0.01457	-156.	0.01459	-80.	0.01461	-47.
TIME FORCE	6	0.01463	-99.	0.01465	-106.	0.01467	-17.
TIME FORCE	6	0.01469	25.	0.01472	-31.	0.01474	-100.
TIME FORCE	6	0.01478	13.	0.01480	15.	0.01484	190.
TIME FORCE	6	0.01486	163.	0.01491	182.	0.01493	82.
TIME FORCE	6	0.01495	103.	0.01497	198.	0.01499	184.
TIME FORCE	6	0.01501	259.	0.01503	238.	0.01505	116.
TIME FORCE	6	0.01507	135.	0.01509	226.	0.01512	211.
TIME FORCE	6	0.01514	149.	0.01516	138.	0.01518	269.
TIME FORCE	6	0.01520	265.	0.01522	199.	0.01524	264.
TIME FORCE	6	0.01526	221.	0.01528	122.	0.01531	258.
TIME FORCE	6	0.01537	99.	0.01539	188.	0.01541	223.
TIME FORCE	6	0.01545	78.	0.01547	102.	0.01548	211.
TIME FORCE	6	0.01550	96.	0.01554	141.	0.01556	16.
TIME FORCE	6	0.01558	9.	0.01560	87.	0.01564	45.
TIME FORCE	6	0.01567	-77.	0.01569	6.	0.01571	-57.
TIME FORCE	6	0.01579	-107.	0.01581	-219.	0.01585	-234.
TIME FORCE	6	0.01586	-343.	0.01590	-296.	0.01592	-314.
TIME FORCE	6	0.01594	-262.	0.01596	-275.	0.01598	-206.
TIME FORCE	6	0.01600	-245.	0.01602	-238.	0.01604	-258.
TIME FORCE	6	0.01605	-411.	0.01609	-250.	0.01615	-294.
TIME FORCE	6	0.01619	-260.	0.01621	-346.	0.01623	-334.
TIME FORCE	6	0.01624	-268.	0.01626	-369.	0.01628	-350.
TIME FORCE	6	0.01630	-232.	0.01632	-204.	0.01634	-274.
TIME FORCE	6	0.01636	-194.	0.01640	-272.	0.01642	-246.
TIME FORCE	6	0.01643	-308.	0.01645	-328.	0.01647	-233.
TIME FORCE	6	0.01649	-280.	0.01653	-252.	0.01657	-355.
TIME FORCE	6	0.01661	-121.	0.01664	-196.	0.01666	-81.
TIME FORCE	6	0.01668	-121.	0.01672	-104.	0.01674	-169.
TIME FORCE	6	0.01676	-18.	0.01680	-64.	0.01685	68.
TIME FORCE	6	0.01689	8.	0.01691	98.	0.01699	61.
TIME FORCE	6	0.01712	138.	0.01716	86.	0.01718	93.
TIME FORCE	6	0.01719	155.	0.01725	216.	0.01727	194.
TIME FORCE	6	0.01729	233.	0.01731	228.	0.01733	121.
TIME FORCE	6	0.01737	125.	0.01740	53.	0.01742	190.
TIME FORCE	6	0.01744	241.	0.01746	185.	0.01750	183.
TIME FORCE	6	0.01754	244.	0.01756	138.	0.01759	295.
TIME FORCE	6	0.01765	204.	0.01767	303.	0.01769	324.
TIME FORCE	6	0.01771	212.	0.01775	272.	0.01778	280.
TIME FORCE	6	0.01780	223.	0.01782	319.	0.01786	152.
TIME FORCE	6	0.01788	272.	0.01792	130.	0.01794	204.
TIME FORCE	6	0.01803	131.	0.01805	68.	0.01807	86.
TIME FORCE	6	0.01809	12.	0.01811	28.	0.01813	140.
TIME FORCE	6	0.01816	61.	0.01820	124.	0.01826	17.
TIME FORCE	6	0.01828	61.	0.01830	50.	0.01832	-15.
TIME FORCE	6	0.01835	100.	0.01841	121.	0.01843	117.
TIME FORCE	6	0.01849	4.	0.01854	89.	0.01862	-11.
TIME FORCE	6	0.01866	62.	0.01868	-62.	0.01871	41.
TIME FORCE	6	0.01873	-4.	0.01879	51.	0.01881	0.
TIME FORCE	6	0.01885	7.	0.01887	-30.	0.01889	70.
TIME FORCE	6	0.01892	-4.	0.01894	102.	0.01896	127.
TIME FORCE	6	0.01900	83.	0.01906	145.	0.01908	134.
TIME FORCE	6	0.01909	217.	0.01911	256.	0.01915	197.
TIME FORCE	6	0.01917	214.	0.01919	284.	0.01923	269.



TIME FORCE	6	0.01930	336.	0.01932	302.	0.01934	381.
TIME FORCE	6	0.01938	310.	0.01940	327.	0.01944	299.
TIME FORCE	6	0.01946	365.	0.01951	467.	0.01953	420.
TIME FORCE	6	0.01961	416.	0.01963	374.	0.01965	454.
TIME FORCE	6	0.01966	431.	0.01968	324.	0.01972	423.
TIME FORCE	6	0.01974	339.	0.01976	305.	0.01980	337.
TIME FORCE	6	0.01982	293.	0.01989	327.	0.01993	263.
TIME FORCE	6	0.01995	294.	0.01999	200.		

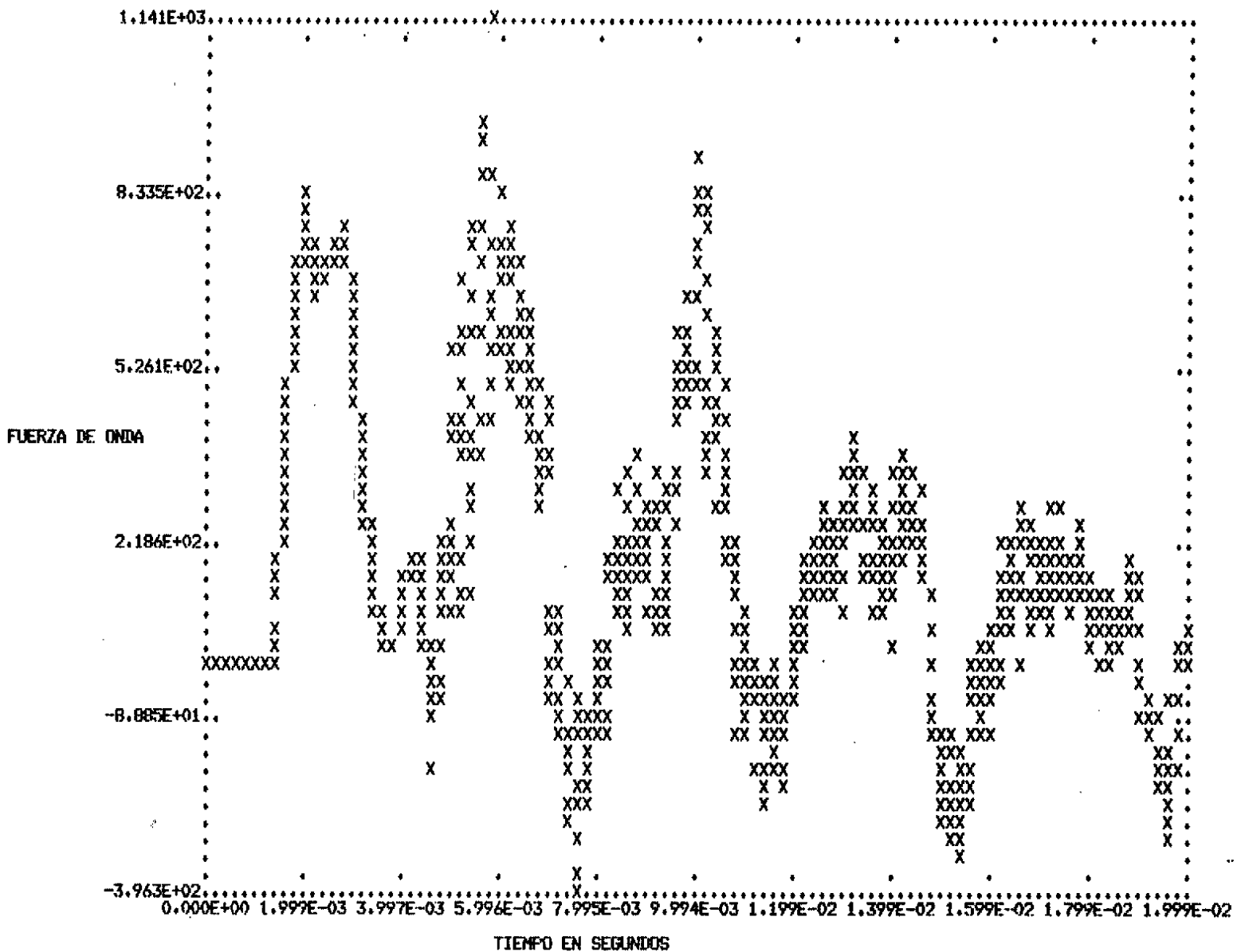
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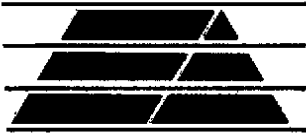
EL ERROR EN LA REDUCCION ES MENOR DE: 0.208E+02



LFUERZA REVISION 1.

C.N.TRILLO-SISTEMA YP.
RAMA 2, TRAMO 3 CON 1053 PARES DE VALORES
(IC1= 4)
FUNCION TEMPORAL ORIGINAL





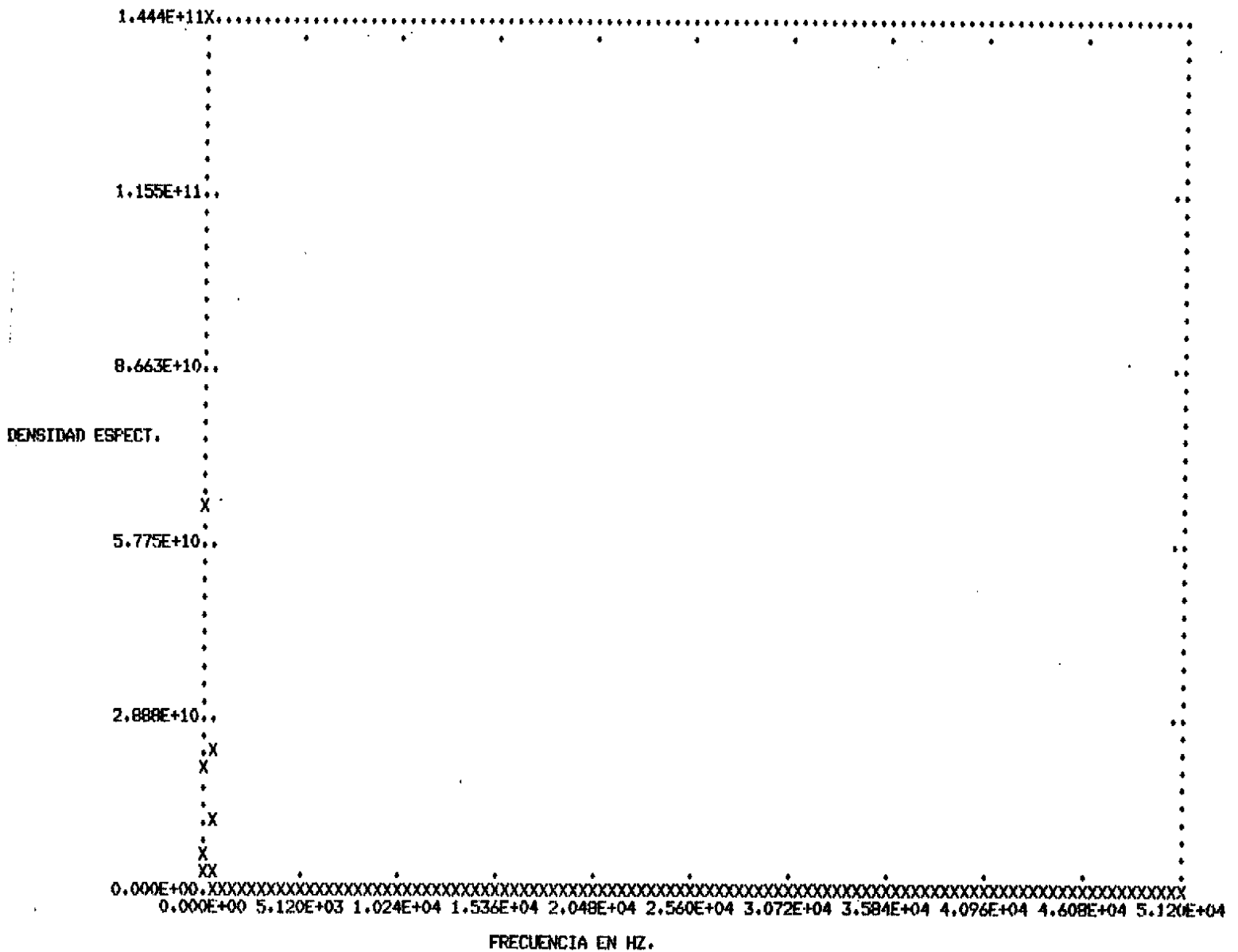
LFUERZA REVISION 1.

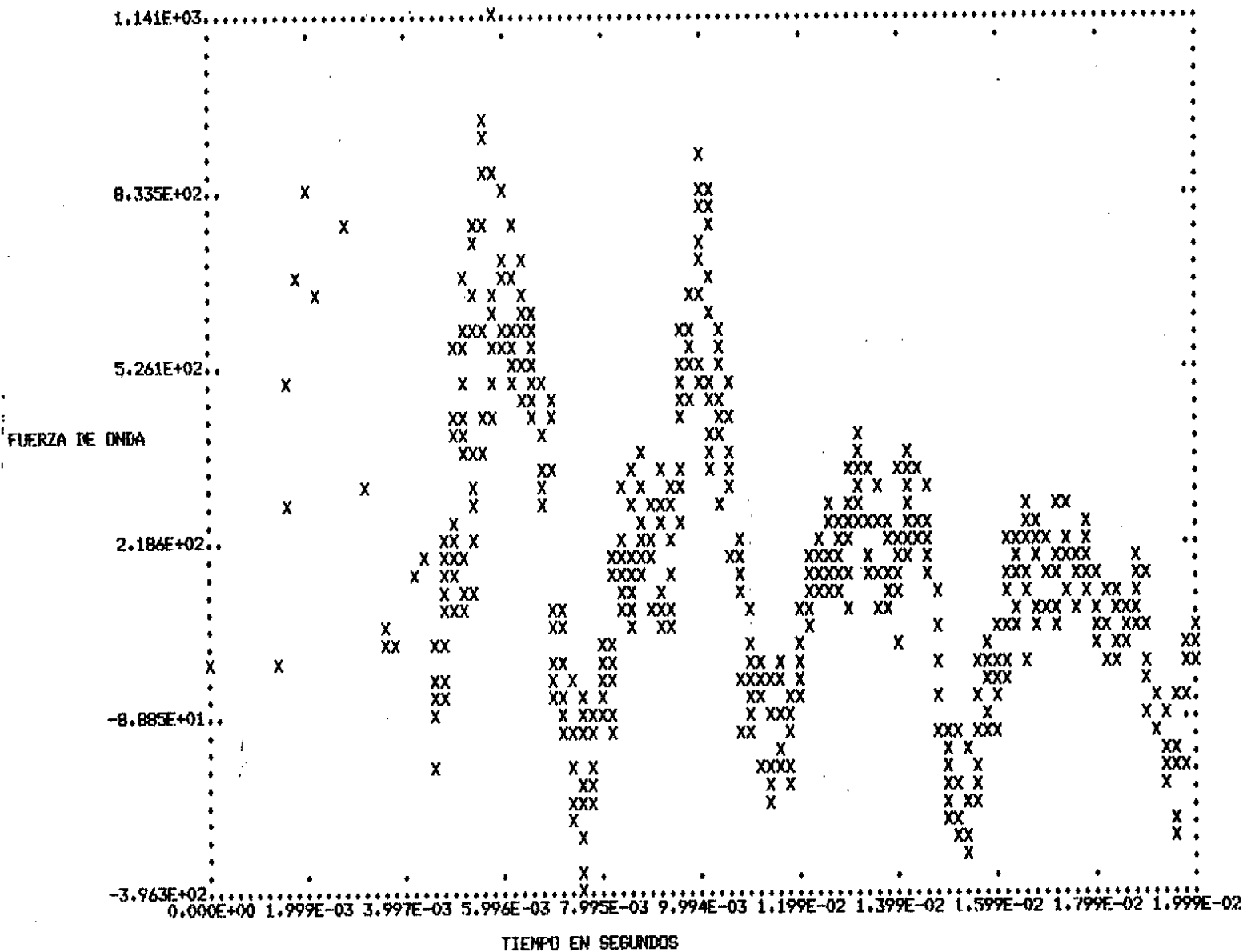
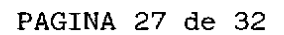
C.N.TRILLO-SISTEMA YP.

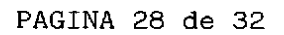
RAMA 2, TRAMO 3 CON 1053 PARES DE VALORES

(IC1= 4)

DENSIDAD ESPECTRAL DE POTENCIA DE LA FUNCION TEMPORAL ORIGINAL







FRECUENCIA EN HZ.



LFUERZA REVISION 1.

C.N.TRILLO-SISTEMA YP.
DATOS DE ENTRADA PARA AGPIPE

RAMA 2 ,TRAMO 3 CON 1053 PUNTOS ORIGINALES

TIME FORCE	7	0.00000	0.	0.00139	6.	0.00154	284.
TIME FORCE	7	0.00169	504.	0.00186	691.	0.00203	829.
TIME FORCE	7	0.00218	656.	0.00283	767.	0.00323	305.
TIME FORCE	7	0.00357	57.	0.00365	25.	0.00388	38.
TIME FORCE	7	0.00412	167.	0.00431	188.	0.00460	-54.
TIME FORCE	7	0.00462	-169.	0.00464	41.	0.00465	-102.
TIME FORCE	7	0.00467	37.	0.00469	-39.	0.00471	105.
TIME FORCE	7	0.00473	-66.	0.00475	147.	0.00477	32.
TIME FORCE	7	0.00479	30.	0.00481	183.	0.00483	117.
TIME FORCE	7	0.00484	-21.	0.00486	211.	0.00488	121.
TIME FORCE	7	0.00490	85.	0.00492	251.	0.00494	224.
TIME FORCE	7	0.00496	106.	0.00498	411.	0.00500	176.
TIME FORCE	7	0.00502	189.	0.00503	444.	0.00505	169.
TIME FORCE	7	0.00507	211.	0.00509	551.	0.00511	175.
TIME FORCE	7	0.00513	546.	0.00515	107.	0.00517	390.
TIME FORCE	7	0.00519	383.	0.00521	593.	0.00522	137.
TIME FORCE	7	0.00524	483.	0.00526	427.	0.00528	689.
TIME FORCE	7	0.00530	128.	0.00532	656.	0.00534	212.
TIME FORCE	7	0.00538	599.	0.00540	291.	0.00541	728.
TIME FORCE	7	0.00543	323.	0.00545	779.	0.00547	362.
TIME FORCE	7	0.00551	583.	0.00553	879.	0.00555	430.
TIME FORCE	7	0.00557	938.	0.00559	445.	0.00562	915.
TIME FORCE	7	0.00564	377.	0.00566	767.	0.00568	957.
TIME FORCE	7	0.00570	442.	0.00572	1130.	0.00574	569.
TIME FORCE	7	0.00576	865.	0.00579	564.	0.00581	623.
TIME FORCE	7	0.00583	492.	0.00585	542.	0.00587	649.
TIME FORCE	7	0.00589	508.	0.00591	559.	0.00593	677.
TIME FORCE	7	0.00598	721.	0.00600	725.	0.00602	598.
TIME FORCE	7	0.00606	848.	0.00608	681.	0.00616	786.
TIME FORCE	7	0.00617	567.	0.00619	593.	0.00621	694.
TIME FORCE	7	0.00625	683.	0.00627	493.	0.00629	533.
TIME FORCE	7	0.00631	651.	0.00633	475.	0.00635	514.
TIME FORCE	7	0.00636	646.	0.00638	723.	0.00640	634.
TIME FORCE	7	0.00648	590.	0.00652	534.	0.00654	553.
TIME FORCE	7	0.00655	626.	0.00657	540.	0.00659	534.
TIME FORCE	7	0.00661	591.	0.00663	483.	0.00665	433.
TIME FORCE	7	0.00667	471.	0.00671	355.	0.00674	332.
TIME FORCE	7	0.00678	411.	0.00680	312.	0.00682	334.
TIME FORCE	7	0.00684	481.	0.00688	291.	0.00690	463.
TIME FORCE	7	0.00692	475.	0.00693	344.	0.00697	447.
TIME FORCE	7	0.00699	103.	0.00701	0.	0.00703	-46.
TIME FORCE	7	0.00705	-30.	0.00707	57.	0.00712	3.
TIME FORCE	7	0.00716	102.	0.00718	50.	0.00720	-71.
TIME FORCE	7	0.00722	-56.	0.00724	11.	0.00726	-89.
TIME FORCE	7	0.00728	-112.	0.00730	-36.	0.00731	-34.
TIME FORCE	7	0.00735	-193.	0.00739	-113.	0.00743	-254.
TIME FORCE	7	0.00745	-230.	0.00747	-118.	0.00749	-273.
TIME FORCE	7	0.00750	-313.	0.00752	-134.	0.00754	-218.
TIME FORCE	7	0.00756	-379.	0.00758	-392.	0.00760	-295.
TIME FORCE	7	0.00762	-359.	0.00764	-244.	0.00766	-61.
TIME FORCE	7	0.00769	-96.	0.00773	-214.	0.00775	-176.
TIME FORCE	7	0.00777	-219.	0.00779	-192.	0.00783	-234.
TIME FORCE	7	0.00787	-82.	0.00788	-116.	0.00794	-53.
TIME FORCE	7	0.00798	-85.	0.00800	0.	0.00807	-28.
TIME FORCE	7	0.00809	40.	0.00811	-77.	0.00813	-105.
TIME FORCE	7	0.00815	45.	0.00819	-23.	0.00821	-8.
TIME FORCE	7	0.00823	155.	0.00825	196.	0.00826	-10.
TIME FORCE	7	0.00830	92.	0.00832	92.	0.00834	161.
TIME FORCE	7	0.00836	97.	0.00838	194.	0.00840	220.



TIME FORCE	7	0.00842	138.	0.00844	316.	0.00847	81.
TIME FORCE	7	0.00849	180.	0.00851	107.	0.00855	59.
TIME FORCE	7	0.00857	170.	0.00859	355.	0.00861	188.
TIME FORCE	7	0.00863	168.	0.00864	282.	0.00868	135.
TIME FORCE	7	0.00870	145.	0.00872	367.	0.00876	233.
TIME FORCE	7	0.00878	253.	0.00880	175.	0.00883	316.
TIME FORCE	7	0.00885	241.	0.00889	183.	0.00891	267.
TIME FORCE	7	0.00895	234.	0.00897	271.		
TIME FORCE	8	0.00900	0.	0.00897	0.	0.00898	271.
TIME FORCE	8	0.00899	175.	0.00902	206.	0.00904	95.
TIME FORCE	8	0.00908	203.	0.00910	83.	0.00912	277.
TIME FORCE	8	0.00914	328.	0.00916	238.	0.00920	276.
TIME FORCE	8	0.00921	248.	0.00923	64.	0.00925	117.
TIME FORCE	8	0.00927	260.	0.00929	118.	0.00931	90.
TIME FORCE	8	0.00933	145.	0.00935	304.	0.00939	57.
TIME FORCE	8	0.00942	171.	0.00944	279.	0.00946	228.
TIME FORCE	8	0.00948	95.	0.00950	247.	0.00952	336.
TIME FORCE	8	0.00956	318.	0.00958	434.	0.00963	505.
TIME FORCE	8	0.00965	468.	0.00967	587.	0.00969	534.
TIME FORCE	8	0.00975	520.	0.00977	593.	0.00978	514.
TIME FORCE	8	0.00982	640.	0.00984	465.	0.00988	560.
TIME FORCE	8	0.00990	499.	0.00992	516.	0.00994	663.
TIME FORCE	8	0.00997	815.	0.00999	701.	0.01001	638.
TIME FORCE	8	0.01003	733.	0.01005	883.	0.01007	847.
TIME FORCE	8	0.01009	705.	0.01011	826.	0.01013	813.
TIME FORCE	8	0.01015	632.	0.01016	774.	0.01018	671.
TIME FORCE	8	0.01020	461.	0.01022	387.	0.01024	403.
TIME FORCE	8	0.01026	502.	0.01028	356.	0.01030	524.
TIME FORCE	8	0.01032	580.	0.01034	455.	0.01035	545.
TIME FORCE	8	0.01037	576.	0.01039	524.	0.01041	410.
TIME FORCE	8	0.01043	469.	0.01045	434.	0.01047	273.
TIME FORCE	8	0.01049	467.	0.01051	504.	0.01053	379.
TIME FORCE	8	0.01054	343.	0.01056	426.	0.01060	185.
TIME FORCE	8	0.01066	297.	0.01070	155.	0.01072	209.
TIME FORCE	8	0.01073	196.	0.01077	-25.	0.01079	117.
TIME FORCE	8	0.01083	-110.	0.01085	113.	0.01087	233.
TIME FORCE	8	0.01089	186.	0.01091	-20.	0.01094	105.
TIME FORCE	8	0.01096	-122.	0.01100	38.	0.01102	-4.
TIME FORCE	8	0.01104	-93.	0.01106	-70.	0.01108	83.
TIME FORCE	8	0.01110	-61.	0.01111	-23.	0.01115	-72.
TIME FORCE	8	0.01117	-7.	0.01123	-69.	0.01127	-25.
TIME FORCE	8	0.01129	-179.	0.01130	-230.	0.01134	-95.
TIME FORCE	8	0.01136	-203.	0.01138	-181.	0.01142	-41.
TIME FORCE	8	0.01144	-17.	0.01149	-98.	0.01151	-162.
TIME FORCE	8	0.01153	-139.	0.01157	9.	0.01159	-40.
TIME FORCE	8	0.01161	-23.	0.01167	-168.	0.01168	-183.
TIME FORCE	8	0.01170	-95.	0.01172	-220.	0.01174	-183.
TIME FORCE	8	0.01176	-63.	0.01178	-119.	0.01180	-93.
TIME FORCE	8	0.01182	-114.	0.01184	-66.	0.01186	-90.
TIME FORCE	8	0.01187	-199.	0.01189	-20.	0.01193	-27.
TIME FORCE	8	0.01195	29.	0.01197	16.	0.01199	-55.
TIME FORCE	8	0.01203	8.	0.01205	86.	0.01208	13.
TIME FORCE	8	0.01214	92.	0.01216	178.	0.01220	160.
TIME FORCE	8	0.01222	109.	0.01225	125.	0.01227	63.
TIME FORCE	8	0.01229	182.	0.01233	166.	0.01235	231.
TIME FORCE	8	0.01239	207.	0.01241	128.	0.01244	215.
TIME FORCE	8	0.01248	127.	0.01250	130.	0.01252	237.
TIME FORCE	8	0.01254	272.	0.01256	144.	0.01258	128.
TIME FORCE	8	0.01260	170.	0.01262	115.	0.01263	192.
TIME FORCE	8	0.01269	292.	0.01271	167.	0.01273	182.
TIME FORCE	8	0.01275	248.	0.01277	139.	0.01279	211.
TIME FORCE	8	0.01288	202.	0.01290	88.	0.01292	221.
TIME FORCE	8	0.01294	288.	0.01296	233.	0.01298	264.
TIME FORCE	8	0.01300	147.	0.01301	275.	0.01303	345.
TIME FORCE	8	0.01305	288.	0.01309	343.	0.01311	259.
TIME FORCE	8	0.01317	393.	0.01319	311.	0.01320	281.
TIME FORCE	8	0.01322	405.	0.01324	348.	0.01326	395.



TIME FORCE	8	0.01328	370.	0.01330	255.	0.01332	242.
TIME FORCE	8	0.01334	150.	0.01336	193.	0.01338	342.
TIME FORCE	8	0.01339	157.	0.01345	247.	0.01347	239.
TIME FORCE	8	0.01349	168.	0.01351	256.	0.01357	319.
TIME FORCE	8	0.01362	110.	0.01364	241.	0.01368	145.
TIME FORCE	8	0.01372	170.	0.01374	100.	0.01376	158.
TIME FORCE	8	0.01377	262.	0.01381	117.	0.01385	225.
TIME FORCE	8	0.01387	117.	0.01389	87.	0.01393	170.
TIME FORCE	8	0.01396	113.	0.01398	206.		
TIME FORCE	9	0.00000	0.	0.01398	0.	0.01399	206.
TIME FORCE	9	0.01400	179.	0.01402	37.	0.01408	353.
TIME FORCE	9	0.01410	229.	0.01412	182.	0.01414	337.
TIME FORCE	9	0.01415	349.	0.01417	247.	0.01423	320.
TIME FORCE	9	0.01425	266.	0.01427	383.	0.01431	342.
TIME FORCE	9	0.01434	255.	0.01436	333.	0.01440	224.
TIME FORCE	9	0.01444	204.	0.01446	250.	0.01452	185.
TIME FORCE	9	0.01455	232.	0.01457	165.	0.01461	303.
TIME FORCE	9	0.01463	231.	0.01467	258.	0.01469	169.
TIME FORCE	9	0.01472	70.	0.01474	135.	0.01476	125.
TIME FORCE	9	0.01478	11.	0.01480	68.	0.01482	63.
TIME FORCE	9	0.01484	-62.	0.01488	-134.	0.01490	-108.
TIME FORCE	9	0.01493	-202.	0.01495	-163.	0.01497	-205.
TIME FORCE	9	0.01499	-195.	0.01501	-269.	0.01503	-248.
TIME FORCE	9	0.01505	-106.	0.01507	-232.	0.01509	-237.
TIME FORCE	9	0.01512	-124.	0.01516	-283.	0.01518	-211.
TIME FORCE	9	0.01526	-312.	0.01537	-159.	0.01539	-296.
TIME FORCE	9	0.01541	-325.	0.01543	-240.	0.01545	-233.
TIME FORCE	9	0.01547	-347.	0.01550	-166.	0.01554	-236.
TIME FORCE	9	0.01558	-117.	0.01562	-202.	0.01564	-62.
TIME FORCE	9	0.01566	-7.	0.01569	-98.	0.01571	22.
TIME FORCE	9	0.01573	1.	0.01577	-116.	0.01579	-118.
TIME FORCE	9	0.01581	-9.	0.01583	-33.	0.01586	45.
TIME FORCE	9	0.01588	-7.	0.01590	7.	0.01592	-53.
TIME FORCE	9	0.01594	-21.	0.01596	-38.	0.01598	-126.
TIME FORCE	9	0.01600	-30.	0.01607	53.	0.01609	-14.
TIME FORCE	9	0.01611	-6.	0.01613	78.	0.01617	55.
TIME FORCE	9	0.01623	170.	0.01624	140.	0.01626	232.
TIME FORCE	9	0.01628	206.	0.01630	75.	0.01632	61.
TIME FORCE	9	0.01634	151.	0.01636	89.	0.01640	180.
TIME FORCE	9	0.01643	210.	0.01645	155.	0.01649	126.
TIME FORCE	9	0.01651	-8.	0.01653	131.	0.01655	223.
TIME FORCE	9	0.01657	258.	0.01661	114.	0.01662	273.
TIME FORCE	9	0.01664	256.	0.01666	170.	0.01668	242.
TIME FORCE	9	0.01672	214.	0.01678	253.	0.01681	83.
TIME FORCE	9	0.01685	181.	0.01687	74.	0.01697	167.
TIME FORCE	9	0.01700	104.	0.01704	221.	0.01710	98.
TIME FORCE	9	0.01712	176.	0.01714	171.	0.01718	274.
TIME FORCE	9	0.01721	72.	0.01725	171.	0.01737	230.
TIME FORCE	9	0.01740	202.	0.01744	122.	0.01748	288.
TIME FORCE	9	0.01750	175.	0.01752	187.	0.01754	152.
TIME FORCE	9	0.01757	201.	0.01759	107.	0.01767	185.
TIME FORCE	9	0.01769	91.	0.01773	221.	0.01775	236.
TIME FORCE	9	0.01776	186.	0.01778	183.	0.01780	226.
TIME FORCE	9	0.01782	148.	0.01784	125.	0.01786	189.
TIME FORCE	9	0.01790	157.	0.01794	50.	0.01795	77.
TIME FORCE	9	0.01799	32.	0.01801	73.	0.01803	43.
TIME FORCE	9	0.01809	90.	0.01811	78.	0.01813	13.
TIME FORCE	9	0.01820	115.	0.01822	65.	0.01830	107.
TIME FORCE	9	0.01832	81.	0.01833	133.	0.01837	15.
TIME FORCE	9	0.01841	41.	0.01845	6.	0.01852	76.
TIME FORCE	9	0.01854	21.	0.01856	89.	0.01858	88.
TIME FORCE	9	0.01860	41.	0.01862	84.	0.01866	38.
TIME FORCE	9	0.01871	124.	0.01873	90.	0.01877	153.
TIME FORCE	9	0.01881	122.	0.01885	188.	0.01887	179.
TIME FORCE	9	0.01889	66.	0.01892	166.	0.01894	67.
TIME FORCE	9	0.01898	-42.	0.01902	11.	0.01904	-77.
TIME FORCE	9	0.01906	-2.	0.01917	-118.	0.01921	-130.



TIME FORCE	9	0.01925	-52.	0.01927	-108.	0.01930	-83.
TIME FORCE	9	0.01936	-201.	0.01942	-143.	0.01944	-178.
TIME FORCE	9	0.01946	-142.	0.01947	-169.	0.01951	-319.
TIME FORCE	9	0.01955	-191.	0.01957	-263.	0.01963	-141.
TIME FORCE	9	0.01966	-176.	0.01968	-70.	0.01972	-184.
TIME FORCE	9	0.01974	-51.	0.01976	24.	0.01978	3.
TIME FORCE	9	0.01980	-64.	0.01984	49.	0.01989	-12.
TIME FORCE	9	0.01991	48.	0.01999	58.		

NO. DE PUNTOS:594
EL ERROR EN LA REDUCCION ES MENOR DE: 0.230E+02

MESSAGE SUMMARY: MESSAGE NUMBER - COUNT

213 511 OR OVER