

THE
TI SLAVES
AND
ODDEN TI USERS
GROUPS
NEWSLETTER
MAY 1991

IT'S GETTING
HARDER
AND
HARDER
TO
GET
THE
NEWSLETTER
DONE
WITH
OUT
HELP



I COULD
USE
SOME
ARTICLES
FROM
YOU
USERS

PLEASE HELP OUT!

PAID PROGRAMS

FAIRWARE, SHAREWARE AND
FREWARE. WHAT DO THESE
TERMS MEAN? DOES IT MEAN
THAT JUST BECAUSE THE AUTHOR
OFFERS THE PROGRAM WITHOUT
CHARGE THAT WE ARE FREE OF
ANY OBLIGATIONS?

NOT REALLY. WHAT ABOUT
ALL THE TIME THAT THE AUTHOR
HAS PUT INTO THE PROGRAM?
ALL THE DISKS THAT ARE USED?
THERE ARE MANY EXPENSES THAT
A AUTHOR COMES ACROSS DURING
THE PROGRAMING PROCESS THAT
HE/SHE PROBABLY WON'T
RECOVER. IT'S ONLY FAIR THAT
THE USERS OF THE PROGRAM
HELP SUPPORT THESE AUTHORS.

EVERYDAY, AUTHORS ARE
DROPPING AWAY FROM THE
PROGRAMING MARKET. THEY
DON'T RECEIVE OUR HELP TO
ENCOURAGE THEM TO CONTINUE
ON. IF IT WASN'T FOR THESE
"UNSUNG" HEROS, THE TI
COMPUTER WOULD PROBABLY BE
IN THE JUNK PILE ALONG WITH
ALL THE OTHERS THAT HAVE
FALLEN BY THE WAYSIDE. WE
HAVE A STRONG COMPUTER THAT
IS EVEN STRONGER TODAY
BECAUSE OF ALL THE FREWARE,
SHAREWARE AND FAIRWARE THAT
IS AVAILABLE TO US.

AUTHORS LIKE BJ MATHIS,
BARRY BOONE, TOM WILLS, DR.
CHARLES GOODE AND MIKE
KIMBLE (ONLY TO MENTION A
FEW), ARE PROGRAMERS THAT
NEED OUR HELP. THERE ARE
MANY, MANY MORE THAT NEED
OUR SUPPORT ALONG WITH THOSE
FEW MENTIONED. THESE PEOPLE
SPEND MANY HOURS WRITING THE
PROGRAMS, REWRITING,
ADVERTISING AND SUPPORTING
THE USERS WHEN THEY HAVE
QUESTIONS. MANY TIMES HAVE I
CALLED TOM WILLS DOWN IN
TUCSON, AZ WITH QUESTIONS
ABOUT THE PARADIGM BBS

PROGRAM THAT WE ARE USING IN
THE OGDEN TI USERS GROUP.
MANY TIMES HAS TOM CALLED ME
BACK, LONG DISTANCE TO
DISCUSS THE FIXES OR THE
TIMES HE HAS CALLED THE SALT
FLATS BBS TO CHECK ON THE
OPERATION OF THE PROGRAM AND
SUGGEST POSSIBLE SOLUTIONS.
DO YOU THINK THAT THESE
AUTHORS CAN AFFORD TO DO
THIS FREE OF CHARGE?

I'M NOT SAYING THAT I'M
PERFECT, NOR ANY OF THE
AUTHORS BUT, THEY DO DESERVE
SOMETHING FOR THEIR EFFORT.
EVEN IF YOU USE THEIR
PROGRAM BUT DON'T THINK IT'S
WORTH WHAT THEY ARE ASKING
FOR IT YOU SHOULD SEND THEM
SOMETHING. ANYTHING IS
BETTER THEN NOTHING. IF THEY
ARE ASKING \$30.00 FOR THE
PROGRAM, FOR AN EXAMPLE, BUT
YOU CAN'T AFFORD THE \$30.00
ALL AT ONCE, SEND THEM WHAT
YOU CAN NOW AND MAYBE A
LITTLE MORE LATER. DO YOU
THINK THAT THEY DON'T
UNDERSTAND HOW FINANCIALLY
STRAPPED WE ALL BECOME AT
TIMES? ALL THEY ASK IS FOR
YOUR SUPPORT. CALL THEM ON
THE PHONE AND TELL THEM HOW
MUCH YOU APPRECIATE THEIR
TIME AND EFFORT. SEND THEM A
CARD OR NOTE EXPRESSING HOW
MUCH YOU APPRECIATE THEM.
WHATEVER IT IS, DO IT. AND
DO IT NOW. THEY NEED TO HEAR
FROM ALL OF US.

YOU KNOW, IF I WERE AN
AUTHOR (SOMEDAY I HOPE TO
BE) AND I WAS ASKING \$30.00
FOR MY PROGRAM, I WOULD BE
VERY HAPPY TO RECEIVE \$15.00
FROM A USER, IF BECAUSE OF
NO OTHER REASON BUT BECAUSE
THAT'S WHAT THE PERSON
THOUGHT THAT MY PROGRAM WAS
WORTH TO HIM. AT LEAST THAT
ONE PERSON CARED ENOUGH TO
SAY SO AND SUPPORT THE
EFFORT.

LET'S HELP OUR AUTHORS
OUT THERE. REMEMBER, IF IT

WASN'T FOR THEM, WE WOULD ALL STILL BE USING TERMINAL EMULATOR II OR DISK MANAGER II, OR THE LIKES. LOOK AT WHAT WE HAVE GOT AND LET'S ALL JUMP IN THERE AND SUPPORT THE EFFORTS AND TALENTS OF THE AUTHORS.

THE PRECEEDING IS THE SOLE OPINION OF DAVE DEHEER, SYSOP OF THE SALT FLATS BBS AND GROUP MEMBER OF THE OGDEN TI USERS GROUP. OTHER OPINIONS ARE INVITED.

THE SALT FLATS BBS

IT HAS BEEN TWO MONTHS SINCE I STARTED THE SALT FLATS BBS. IT DOESN'T SEEM ALL THAT LONG AGO THAT I HAD THE DESIRE TO START MY OWN BBS AND STARTED LOOKING FOR EVERY BBS PROGRAM THAT I COULD FIND AND TEST THEM ALL. MANY HOURS WERE SPENT IN FRONT OF THE COMPUTER MAKING CHANGES, RE-WRITING AND TESTING. AFTER MANY MONTHS OF THIS, IT WAS DECIDED THAT PARADIGM BBS SOFTWARE FROM TOM WILLS IN TUCSON, AZ BE THE PROGRAM OF CHOICE.

WELL, SINCE THAT TIME, WE HAVE HAD OVER 50 PEOPLE WITH ALL TYPES OF COMPUTERS LOG ONTO OUR BBS LEAVING OVER 900 MESSAGES. THERE HAS ALSO BEEN OVER 550 CALLS TO THE BBS. WHEN YOU THINK OF IT IN THOSE TERMS, IN ONLY TWO MONTHS WE'VE HAD SOME GREAT ACTIVITY.

I BELIEVE THAT THAT SAYS ALOT FOR THE EASE OF THE PROGRAM AND FOR THE TI-99/4A COMPUTER. DURING THIS TIME, WE HAVE NOT EXPERIENCED ANY HARDWARE FAILURES THAT WERE CAUSED BY ANYTHING OTHER THEN THE POWER OR THE SYSOP. WE HAVE HAD SOME MINOR SOFTWARE PROBLEMS BUT, THEY

TO ARE BEING FIXED. HERE IN THE NEAR FUTURE WE WILL HAVE A HARD DISK ON THE BOARD THAT WILL HOLD ALL THE UP AND DOWNLOADS OF THE SYSTEM. I HOPE TO HAVE THE MYARC HFDDC CARD REAL SOON FROM TI DIRECT. WITH IT I PLAN TO INSTALL AT LEAST TWO 20 MEG HARD DRIVES AND TWO DS/DD FLOPPY DRIVES (I STILL HAVE A HARD TIME IMAGINING THE TI WITH THAT MUCH SPACE).

ALTHOUGH THE BBS IS MINE, IT IS FULLY SUPPORTED BY THE OGDEN TI USERS GROUP. THE GROUP CONTINUES TO GIVE MAXIMUM SUPPORT AND SUGGESTIONS THAT CONTINUOUSLY IMPROVE THE BBS.

MY MANY THANKS GOES OUT TO THE TOM WILLS OF THE SOUTHWEST NINETY-NINERS IN TUCSON, AZ. FOR THE MANY UNSELFESH HOURS THAT HE HAS DEVOTED IN ASSISTING ME, AND TO DAVE MISCHLER, PRESIDENT OF THE OGDEN TI USERS GROUP. IF IT WASN'T FOR DAVE WHO SPENT MANY LATE, LATE NIGHTS CALLING AND TESTING THE PROGRAM FOR ME, I PROBABLY WOULDN'T HAVE SUCCEEDED THIS FAR THIS FAST. THERE ARE OTHERS WHO HELPED ALSO. MEL BRAGG, WHO TESTED THE BOARD USING HIS IBM/CLONE (YECH!), AND HAROLD HILBURN WHO TESTED OUT THE 300 BPS FEATURE. EVERYONE OF THESE INDIVIDUALS PLAYED AN IMPORTANT PART IN THE FORMATION OF THE SALT FLATS. DAVE SPENT A LONG TIME CONVINCING ME THAT IT WAS A GREAT IDEA DURING THOSE TIMES WHEN I HAD SECOND THOUGHTS. TO HAROLD AND MEL WHO KEPT INSISTING THAT OUR OWN BBS, RAN ON A TI, WOULD MAKE A PLACE IN NORTHERN UTAH BBS HISTORY. TO THESE PEOPLE AND FRIENDS, I SAY THANK YOU.

A REAL SPECIAL THANKS

MOST GO OUT TO ASSOCIATED BUSINESS PRODUCTS OF UTAH. THEY ARE FURNISHING US WITH THE PHONE LINE FOR THE BBS. EVEN THOUGH WE CAN'T USE THE LINE DURING THE WEEKDAYS, IT STILL SAVES A BIG EXPENSE WITH THE PHONE BILL.

TO SUPPORT THE SALT FLATS BBS, CALL MONDAY THROUGH FRIDAY, 5:00 PM TO 8:00 AM OR ANYTIME DURING THE WEEKENDS AND HOLIDAYS AT 801-392-9102. WE SUPPORT 3/12/2400 BAUD RATES. ANSI OR ADM3A TERMINATIONS AT 8,N,1

SUBMITTED BY: DAVE DEHEER, SYSOP, THE SALT FLATS BBS OGDEN, UTAH

WHAT ARE WE DOING HERE?????

WHAT ARE WE DOING HERE? AS MEMBERS OF THE USERS GROUP, ARE WE REALLY PERFORMING UP TO OUR EXPECTATIONS, OR OF THOSE AROUND US? WHY ARE WE MEMBERS OF THE GROUP? IS IT TO LEARN HOW TO PROGRAM, TO HELP OTHERS LEARN OR JUST TO HAVE SOMETHING TO DO WITH OUR TIME?

THERE ARE MANY QUESTIONS THAT WE COULD ASK OF OURSELVES AND OTHERS AS TO WHY WE ARE HERE AND WE WOULD RECEIVE AS MANY DIFFERENT ANSWERS AS THERE AS MEMBERS. BUT, WE MUST ASK OURSELVES, "WHY ARE WE HERE?"

ALL OF US HAVE DIFFERENT TALENTS THAT WE COULD AND SHOULD BE SHARING WITH THE OTHER MEMBERS OF OUR GROUP. SOME OF US HAVE THE ABILITY TO UNDERSTAND PROGRAMMING WHILE OTHERS UNDERSTAND PROGRAMS. STILL, OTHERS KNOW HOW TO TEACH SO THAT OUR

MEMBERS UNDERSTAND WHAT'S GOING ON. I ASK MYSELF DAILY, "WHERE CAN I BE OF THE MOST ASSISTANCE IN HELPING OTHERS UNDERSTAND WHAT I KNOW?" I ENJOY TEACHING, BEING THE INSTRUCTOR. THAT WAY, I LEARN MORE FROM THOSE THAT I'M TEACHING. I CAN'T THINK OF EVERY POSSIBLE SITUATION WITH ALL PROGRAMS. IT'S THE STUDENTS THAT ASK QUESTIONS THAT I HAVE TO THINK ABOUT OR LOOK UP THE ANSWERS FOR THAT CONSTANTLY THRILLS ME. ALBERT EINSTEIN ONCE SAID WHEN HE WAS ASKED ABOUT WHAT MAKES AN INTELLIGENT MAN, "THE MARK OF INTELLIGENCE IS NOT HOW MUCH A MAN KNOWS BUT, IF HE KNOWS WHERE TO LOOK FOR THE ANSWER". IT DOESN'T TAKE "SMARTS" TO TEACH, ONLY THE MATERIAL TO TEACH FROM. THEREFORE, ALL OF US HAVE THAT ABILITY. THE ABILITY TO HELP OTHERS LEARN. WE ALL STARTED WITH NOTHING WHEN WE WERE FIRST INTRODUCED TO THE WORLD OF COMPUTING, AND NOW WHERE ARE WE. ARE WE BORED WITH THE COMPUTER? IF SO, THEN WE HAVEN'T LEARNED VERY MUCH ABOUT IT. THERE IS ALWAYS SOMETHING NEW TO LEARN. IF WE HAVE LEARNED IT ALL, THEN WE BECOME BORING TO OTHERS.

AS I STATED, WE ARE ALL DIVERSIFIED IN OUR ABILITIES. AND WE ALL HAVE ROOM TO GROW MORE. I ENJOY LEARNING HOW TO PROGRAM BUT, IT INTREGES ME MORE TO LEARN HOW A PROGRAM WORKS. I DON'T UNDERSTAND ASSEMBLY WELL BUT, I'M WILLING TO LEARN. AND SINCE I'VE BECOME A SYSOP, I'VE BEEN FORCED TO LEARN A LITTLE ABOUT ASSEMBLY. BEING FORCED INTO DOING SOMETHING IS NOT ALWAYS THE MOST FUN OF WAYS TO DO SOMETHING BUT, I TAKE THE CHALLENGE AND ACCEPT THE RESPONSIBILITY. WHY, BECAUSE I WANT TO BE A SYSOP. THAT'S WHY.

IF YOU WANT TO LEARN HOW TO PROGRAM, THEN ACCEPT THE RESPONSIBILITY OF LEARNING HOW. IF YOU ARE HAPPY AND CONTENT WITH JUST RUNNING PROGRAMS THAT ARE ALREADY WRITTEN, THAT'S FINE ALSO. LEARN HOW TO USE IT AND THEN TEACH OTHERS TO USE IT AS WELL. WE CAN'T ALL BE EXPERTS ON ALL SUBJECTS, JUST A FEW.

DON'T LET THE USERS GROUP DOWN BY NOT PARTICIPATING, ACT NOW AND SHARE WITH THE GROUP YOUR SPECIAL TALENTS. THAT'S HOW WE ALL LEARN. THERE ARE ALWAYS NEW PROGRAMS THAT NEED TO BE WRITTEN AND NEW PROGRAMS THAT NEED TO BE TAUGHT.

WOON'T YOU PLEASE HELP? THE USERS GROUP NEEDS YOUR TALENTS.

THE PRECEEDING IS THE SOLE OPINION OF DAVE DEHEER, SYSOP OF THE SALT FLATS BBS.

DM 1000 HELP

AT MAIN MENU:

FCTN-3 = ENTER LIST DEVICE AND CONTROL CODES (DEFAULT=PIO) OPTION TO SAVE CODES AND SCREEN COLORS TO DISK WITH '(PROGRAM NAME)' I.E MGR1 ON IT.

WITH CATALOG ON SCREEN:

FCTN-7 = PRINT CATALOG TO LIST DEVICE (DEFAULT=PIO)

WITH FILE LIST ON SCREEN:

FCTN-6 = PROCEED WITH GIVEN COMMANDS

IN LEFT FIELD:

C = COPY FILE
D = DELETE FILE

M = COPY/DELETE
T = TYPE DIS/FIX 80 FILE TO SCREEN
P = PRINT DIS/FIX 80 FILE TO LIST DEVICE SENDING PREDEFINED CONTROL CODES

WHEN TYPING FILE:

FCTN-8 = RETYPE FILE
FCTN-9 = RETURN TO DISK MENU
FCTN-4 = ABORT
AN 'EOF' NOTICE IS GIVEN IN LOWER LEFT CORNER OF SCREEN WHEN END OF FILE IS REACHED

WHEN PRINTING FILE:

FCTN-8 = REPRINT FILE
FCTN-9 = RETURN TO DISK MENU
FCTN-4 = ABORT

IN RIGHT FIELD:

T = UNPROT/TEMPORARY
U = UNPROTECT FILE
P = PROTECT FILE

TYPE OVER NAME TO RENAME FILE WITH DISK INITIALIZATION MENU:

FCTN-E = GO BACK TO PREVIOUS QUESTION
VALID AT: - # OF SIDES
 -S/D DENSITY
 -VERIFY Y/N

RUN IMAGE PROGRAM:

NOTE!! FILE MUST EXIST OR COMPUTER WILL HANG.
XBASIC 'CALL INIT' IS DONE IF MODULE IS INSTALLED.
'XB VDP' MEANS MAKE VDP REGISTERS THE SAME AS XBASIC.
'EA VDP' MEANS MAKE REGISTERS THE SAME AS E/A.

MISC:

FCTN-1 = DELETE CHARACTER
FCTN-2 = INSERT 1 CHARACTER
FCTN-3 = GO TO MAIN MENU
FCTN-8 = REDO SELECTED MENU
FCTN-9 = GO BACK ONE MENU LEVEL
FCTN-0 = MOVE CURSOR LEFT
FCTN-10 = MOVE CURSOR RIGHT
FCTN-11 = MOVE CURSOR UP
FCTN-12 = MOVE CURSOR DOWN
CAUTION!! WITH MYARC
CONTROL C OR DD NOT RENAME
MGR1 OR MGR2

We wish to give credit to the PUGET SOUND 99'ERS who printed this All Purpose Handy Dandy Reference sheet in their APRIL 85 Newsletter.

QUICK REFERENCE SHEET

COLOR CODES		PATTERN IDENTIFIER CONVERSION TABLE				ERROR CODES	
COLOR	VALUE	0	1	2	3	FIRST	COMMAND OR STATEMENT
TRANSPARENT	1	0	0	0	0	1	OPEN
BLACK	2	0	0	0	1	2	CLOSE
MED. GREEN	3	0	0	1	0	3	INPUT
LT. GREEN	4	0	0	1	1	4	PRINT
DARK BLUE	5	0	1	0	0	5	RESTORE
LT. BLUE	6	0	1	0	1	6	OLD
DK. RED	7	0	1	1	0	7	SAVE
CYAN	8	0	1	1	1	8	DELETE
MED. RED	9	1	0	0	0	9	EOF
LT. RED	10	1	0	0	1		
DK. YELLOW	11	1	0	1	0		
LT. YELLOW	12	1	0	1	1		
DK. GREEN	13	1	1	0	0		
MAGENTA	14	1	1	0	1		
GRAY	15	1	1	1	0		
WHITE	16	1	1	1	1		

ASCII CODES											
CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE
48	0	49	1	50	2	51	3	52	4	53	5
54	6	55	7	56	8	57	9	58	10	59	11
60	12	61	13	62	14	63	15	64	16	65	17
66	18	67	19	68	20	69	21	70	22	71	23
72	24	73	25	74	26	75	27	76	28	77	29
78	30	79	31	80	32	81	33	82	34	83	35
84	36	85	37	86	38	87	39	88	40	89	41
90	42	91	43	92	44	93	45	94	46	95	47
96	48	97	49	98	50	99	51	100	52	101	53
102	54	103	55	104	56	105	57	106	58	107	59
108	60	109	61	110	62	111	63	112	64	113	65
114	66	115	67	116	68	117	69	118	70	119	71
120	72	121	73	122	74	123	75	124	76	125	77
126	78	127	79	128	80	129	81	130	82	131	83
132	84	133	85	134	86	135	87	136	88	137	89
138	90	139	91	140	92	141	93	142	94	143	95
144	96	145	97	146	98	147	99	148	100	149	101
150	102	151	103	152	104	153	105	154	106	155	107
156	108	157	109	158	110	159	111	160	112	161	113
162	114	163	115	164	116	165	117	166	118	167	119
168	120	169	121	170	122	171	123	172	124	173	125
174	126	175	127	176	128	177	129	178	130	179	131
180	132	181	133	182	134	183	135	184	136	185	137
186	138	187	139	188	140	189	141	190	142	191	143
192	144	193	145	194	146	195	147	196	148	197	149
198	150	199	151	200	152	201	153	202	154	203	155
204	156	205	157	206	158	207	159	208	160	209	161
210	162	211	163	212	164	213	165	214	166	215	167
216	168	217	169	218	170	219	171	220	172	221	173
222	174	223	175	224	176	225	177	226	178	227	179
228	180	229	181	230	182	231	183	232	184	233	185
234	186	235	187	236	188	237	189	238	190	239	191
240	192	241	193	242	194	243	195	244	196	245	197
246	198	247	199	248	200	249	201	250	202	251	203
252	204	253	205	254	206	255	207	256	208	257	209
258	210	259	211	260	212	261	213	262	214	263	215
264	216	265	217	266	218	267	219	268	220	269	221
270	222	271	223	272	224	273	225	274	226	275	227
276	228	277	229	278	230	279	231	280	232	281	233
282	234	283	235	284	236	285	237	286	238	287	239
288	240	289	241	290	242	291	243	292	244	293	245
294	246	295	247	296	248	297	249	298	250	299	251
300	252	301	253	302	254	303	255	304	256	305	257
306	258	307	259	308	260	309	261	310	262	311	263
312	264	313	265	314	266	315	267	316	268	317	269
318	270	319	271	320	272	321	273	322	274	323	275
324	276	325	277	326	278	327	279	328	280	329	281
330	282	331	283	332	284	333	285	334	286	335	287
336	288	337	289	338	290	339	291	340	292	341	293
342	294	343	295	344	296	345	297	346	298	347	299
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366	318	367	319	368	320	369	321	370	322	371	323
372	324	373	325	374	326	375	327	376	328	377	329
378	330	379	331	380	332	381	333	382	334	383	335
384	336	385	337	386	338	387	339	388	340	389	341
390	342	391	343	392	344	393	345	394	346	395	347
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426	378	427	379	428	380	429	381	430	382	431	383
432	384	433	385	434	386	435	387	436	388	437	389
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462	414	463	415	464	416	465	417	466	418	467	419
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498	450	499	451	500	452	501	453	502	454	503	455
504	456	505	457	506	458	507	459	508	460	509	461
510	462	511	463	512	464	513	465	514	466	515	467
516	468	517	469	518	470	519	471	520	472	521	473
522	474	523	475	524	476	525	477	526	478	527	479
528	480	529	481	530	482	531	483	532	484	533	485
534	486	535	487	536	488	537	489	538	490	539	491
540	492	541	493	542	494	543	495	544	496	545	497
546	498	547	499	548	500	549	501	550	502	551	503
552	504	553	505	554	506	555	507	556	508	557	509
558	510	559	511	560	512	561	513	562	514	563	515
564	516	565	517	566	518	567	519	568	520	569	521
570	522	571	523	572	524	573	525	574	526	575	527
576	528	577	529	578	530	579	531	580	532	581	533
582	534	583	535	584	536	585	537	586	538	587	539
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612	564	613	565	614	566	615	567	616	568	617	569
618	570	619	571	620	572	621	573	622	574	623	575
624	576	625	577	626	578	627	579	628	580	629	581
630	582	631	583	632	584	633	585	634	586	635	587
636	588	637	589	638	590	639	591	640	592	641	593
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666	618	667	619	668	620	669	621	670	622	671	623
672	624	673	625	674	626	675	627	676	628	677	629
678	630	679	631	680	632	681	633	682	634	683	635
684	636	685	637	686	638	687	639	688	640	689	641
690	642	691	643	692	644	693	645	694	646	695	647
696	648	697	649	698	650	699	651	700	652	701	653
702	654	703	655	704	656	705	657	706	658	707	659
708	660	709	661	710	662	711	663	712	664	713	665
714	666	71									

TI-99/4A ERROR CODE REFERENCE SHEET
 The following courtesy BBBB BBS in Clinton, MD. (301-292-1482), thanks to Bob, the sysop there:

TI BASIC ERROR CODES PERTAINING TO THE DISK SYSTEM

#:	First Digit	Second Digit	
0:	OPEN		Can't find specified disk drive
1:	CLOSE		Disk or Program is write protected
2:	INPUT		Bad Open Attribute
3:	PRINT		Illegal Operation
4:	RESTORE		Disk Full or too many files open
5:	OLD		Attempt to read past EOF
6:	SAVE		Device Error
7:	DELETE		File Error
8:	NIL		
9:	EOF		

EXTENDED BASIC ERROR CODES

10	Numeric Overflow
14	Syntax Error
16	Illegal After Subroutine
19	Name Too Long
20	Unrecognized Character
24	\$/# Mismatch
28	Improperly Used Name
36	Image Error
39	Memory Full
40	Stack Overflow
43	NEXT without FOR
44	FOR-NEXT Nesting
47	Must Be In Subroutine
48	Recursive Subroutine CALL
49	Missing SUBEND
51	RETURN without GOSUB
54	String Truncated
56	Speech \$ Too Long
57	Bad Subscript
60	Line Not Found
61	Bad Line #
62	Line Too Long
67	Can't CONTINUE
69	Command Illegal In Program
70	Only Legal in Program
74	Bad Argument
78	No Program Present
79	Bad Value
80	Nil
81	Incorrect Argument List
82	Nil
83	Input Error
84	Data Error
97	Protection Violation
109	File Error
138	I/O Error
135	Subroutine Not Found

I/O ERRORS

#:	First Digit	Second Digit	
0:	OPEN		Device Not Found
1:	CLOSE		Write Protected
2:	INPUT		Bad Open Attribute
3:	PRINT		Invalid I/O Command
4:	RESTORE		Out of Space
5:	OLD		End Of File
6:	SAVE		Device Error
7:	DELETE		File/Data Mismatch

DISK MANAGER ERROR CODES

#:	First Digit	Second Digit	
1:	OTHER		Rec not found
2:	SEEK/STEP		Cyclic Redundancy
3:	INPUT		Lost Data
4:	PRINT		Write Protect
5:	Nil		Write Fault
6:	Nil		No Disk Drive
7:	Nil		Invalid Input
8:	Nil		
9:			Special error code for Comprehensive tests.

EDITOR/ASSEMBLER ERROR CODES
X/B ERROR EQUATES

ERRNO	>0200	2	Numeric Overflow
ERRSYN	>0300	3	Syntax Error
ERRIBS	>0400	4	Illegal after Subprgm
ERRNQS	>0500	5	Unmatched Quotes
ERRNTL	>0600	6	Name too long
ERRSNM	>0700	7	\$/# Mismatch
ORROBE	>0800	8	Option Base Error
ERRMUV	>0900	9	Improperly Used Name
ERRIM	>0A00	10	Image Error
ERRNEM	>0B00	11	Memory Full
ERRSO	>0C00	12	Stack Overflow
ERRNWF	>0D00	13	NEXT without FOR
ERRFNW	>0E00	14	FOR-NEXT Nesting
ERRSNS	>0F00	15	Must be In Subprogram
ERRRSC	>1000	16	Recursive Subprogram
ERRMS	>1100	17	Missing SUBEND
ERRRVG	>1200	18	RETURN without GOSUB
ERRST	>1300	19	String Truncated
VRRRBS	>1400	20	Bad Subscript
ERRSSL	>1500	21	Speech \$ Too Long
ERRLNF	>1600	22	Line Not Found
ERRBLN	>1700	23	Bad Line Number
ERRLT	>1800	24	Line Too Long
ERRCC	>1900	25	Can't CONTINUE
ERRCIP	>1A00	26	Illegal in Program
ERRROLP	>1B00	27	Only Legal In Program
ERRBA	>1C00	28	Bad Argument
ERRNPP	>1D00	29	No Program Present
ERRBV	>1E00	30	Bad Value
ERRIAL	>1F00	31	Incorrect ArgumentList
ERRINP	>2000	32	Input Error
ERRDAT	>2100	33	Data Error
ERRFE	>2200	34	File Error
ERRIO	>2400	36	I/O Error
ERRSNF	>2500	37	Subprogram Not Found
ERRPV	>2700	39	Protection Violation
ERRINV	>2800	40	Unrecognized Character
WRNNO	>2900	41	Numeric Overflow
WRNST	>2A00	42	String Truncated
WRNPP	>2B00	43	No Program Present
WRNINP	>2C00	44	Input Error
WRNIO	>2D00	45	I/O Error

TI-WRITER ERROR CODES

0:	Indicates Disk Controller not on; or that Diskette is not initialized
6:	No Disk In Drive; or disk is upside down; or Drive is Not on.
7:	No Disk In Drive
00:	Illegal use of LoadF, PrintF, or an error in using those commands
02:	No file on Diskette with Filename as Used
04:	Diskette is Full
06:	PrintF Command in progress was interrupted, or: Disk Door Was Opened while red light was on
07:	Invalid Filename (I.E., Name too long or using invalid characters)
15:	Invalid Disk Drive Number, or Device

LOADER ERROR CODES

#:	First Digit	Second Digit	
0:	OPEN		Device Not Found
1:	CLOSE		Write Protected
2:	INPUT		Bad Open Attribute
3:	PRINT		Invalid I/O Command
4:	RESTORE		Out of Space
5:	OLD		End Of File
6:	SAVE		Device Error
7:	DELETE		File/Data Mismatch
8:			Memory Overflow
9:			Not Used
10:			Illegal Tag
11:			Checksum Error
12:			Unresolved Reference

**NOTES ON LASER PRINTING
WITH THE TI-99/4A
BY LARRY FAIRBANKS
(REPRINTED FROM THE SPIRIT OF 99)**

ONE OF THE BEST THINGS ABOUT THE TI-99 COMPUTER IS THAT IT IS COMPATIBLE WITH MOST COMMONLY USED PRINTERS, INCLUDING THE REVOLUTIONARY LASER PRINTER. MOST OF THESE PRINTERS USE THE PARALLEL PORT THAT IS ALSO USED FOR DOT MATRIX PRINTERS, AND FUNCTION IN MUCH THE SAME WAY IN TEXT MODE, USING THE SAME SIGNAL FOR PRODUCING A LETTER "A", THAT THE TI-4A IMPACT OR EPSON FX USE. GRAPHICS WILL REQUIRE THE USE OF PRINTER DRIVERS DESIGNED FOR RASTER GRAPHIC. FORTUNATELY, MOST PRINTING IS OF TEXT, SO TAKING ADVANTAGE OF THE LASER PRINTER'S 300 DOT PER INCH RESOLUTION AND TRUE LETTER QUALITY IS USUALLY VERY STRAIGHT FORWARD. JUST PLUG THE PARALLEL PRINTER CABLE FROM THE RS232 CARD INTO THE LASER PRINTER BEFORE YOU TURN IT ON, THEN PRINT TO DEVICE "PIO.LP". MOST LASER PRINTERS ALSO HAVE AN RS232 PORT THAT OPERATES AT 9600 BAUD.

THE LASER PRINTER IS ALSO FASTER AND QUIETER THAN THE DOT MATRIX. THE FIRST PAGE COMES OUT IN ABOUT 30 SECONDS, AND SUBSEQUENT PAGES ARE PRINTED AT FROM FOUR TO TEN PAGES PER MINUTE, DEPENDING ON THE MODEL. IT MAKES ABOUT AS MUCH NOISE AS A XEROX, BECAUSE IT IS BASED ON A COPIER ENGINE. SPECIAL PAPER IS NOT REQUIRED, BUT THERE ARE SOME LIMITATIONS ON THE SIZE AND WEIGHT, SO CONSULT YOUR MANUAL FOR SPECIFICS.

PAPER SIZE IS LIMITED IN ONE DIMENSION BY THE WIDTH OF THE FUSER DRUM, WHICH ACTUALLY PUTS PRINT TO PAPER. IN ALL BUT EXPENSIVE MODELS, IT IS 8 AND 1/2 INCHES WIDE. PAPER SIZES ARE 8 AND 1/2 BY 11 OR 14 INCHES, BUT MOST UNITS ALSO HAVE A MANUAL FEED CAPABILITY FOR LONG OR ODD SIZED PAPER AND ENVELOPES. COLORED OR TEXTURED PAPER CAN ALSO BE USED FOR SPECIAL PROJECTS SUCH AS ANNOUNCEMENTS OR RESUMES. ONE CAN EVEN DOUBLE PRINT, SEND THE SAME PAPER THROUGH TWICE, OR PRINT ON PREVIOUSLY PRINTED PAPER.

A WIDE VARIETY OF FONTS ARE AVAILABLE ON IBM COMPATIBLE DISKETTES THAT CAN BE DOWNLOADED INTO LASER PRINTERS WITH AT LEAST 512K OF MEMORY. IN ADDITION, ALL LASER PRINTERS ARE NOW SOLD WITH A VARIETY OF FONTS OF DIFFERENT CHARACTER SETS, SIZES AND OFTEN TYPE FACES BUILT RIGHT INTO THE PRINTER. ADDITIONAL FONTS ARE AVAILABLE ON CARTRIDGES WHICH DO NOT REQUIRE DOWNLOADING.

SOME DIFFERENCES ARE VERY APPARENT. BOLD IS A DIFFERENT FONT, RATHER THAN A DOUBLE STRIKE, SO IT OFTEN HAS THICKER LETTERS IN ADDITION TO BEING MUCH DARKER. COMPRESSED PRINT IS A DIFFERENT FONT, AS IN DOT MATRIX, BUT SINCE MANY TYPE SIZES ARE AVAILABLE, CHR\$(15) IS NOT SUFFICIENT TO MAKE THE CHANGE. A CHR\$(12), ON THE OTHER HAND, WILL STILL GIVE YOU A FORM FEED.

A LARGE NUMBER OF ESCAPE SEQUENCES ARE AVAILABLE TO CONTROL FONT USAGE, LINES PER PAGE, UNDERLINING, MARGINS, AND POSITIONING. THEY CAN ALSO CONTROL ORIENTATION SO YOU CAN PRINT SIDWAYS. THE ESCAPE SEQUENCE GETS ITS NAME FROM THE ESCAPE CHARACTER, CHR\$(27), WITH WHICH IT STARTS, AND IT ENDS WITH A CAPITAL LETTER.

MANY LASER PRINTER SEQUENCES ARE LONG AND CONTAIN UPPER AND LOWER CASE LETTERS, NUMBERS AND SYMBOLS. SPELLING AND SYNTAX ARE CRITICAL.

THERE ARE TWO DIFFERENT ESCAPE SEQUENCE FORMATS FOR SELECTING DOWNLOADED FONTS, THE FONT DESCRIPTION SEQUENCE, OR LONG FORM, AND THE FONT ID SEQUENCE OR SHORT FORM. TO USE THE SHORT FORM, YOU MUST SET THE ID WHEN DOWNLOADING.

ESCAPE SEQUENCES CAN BE SENT TO THE PRINTER IN BASICALLY TWO WAYS. IF YOU ARE USING THE FORMATTER, CREATE A TRANSLITERAL WITH A PUNCTUATION MARK LIKE AN @ SIGN WHICH IS ASCII 61. AFTER USING IT, YOU WILL WISH TO RESET IT SINCE IT MAY BE USED IN THE TEXT. REMEMBER, DO NOT USE ANY REAL CHARACTERS IN YOUR TRANSLITERAL DEFINITION, JUST ASCII DEFINITION NUMBERS. EVEN THE NUMBER 8 FOR 8 LINES PER PAGE MUST BE ENTERED AS A 55 IN THE TRANSLITERAL.

THE OTHER WAY IS TO IMBED THE ESCAPE SEQUENCE IN YOUR TEXT. THIS WORKS FOR A STRAIGHT PRINTS-OUT BUT NOT WITH THE FORMATTER. ON THE OTHER HAND, THE TRANSLITERAL WON'T WORK WITH A STRAIGHT PRINT. IT IS GOOD FOR SMALL PROJECTS THAT DO NOT REQUIRE FORMATTER EXCLUSIVE FUNCTIONS SUCH AS FILL AND ADJUST. THE ADVANTAGE IS THAT YOU DO NOT NEED TO LOOK UP ASCII NUMBERS AND KEEP GOING TO THE FORMATTER TO PRINT EACH TEST COPY. TO CREATE THE ESCAPE CHARACTER AT THE START OF THE SEQUENCE, PRESS CTRL+U, FCTN+R, AND CTRL+U AGAIN TO TURN THE SPECIAL CHARACTER MODE OFF. YOU WILL SEE A LITTLE @ CHARACTER, THEN PROCEED TO TYPE IN THE REST OF THE SEQUENCE WITH ACTUAL CHARACTERS, NOT ASCII NUMBERS.

USING THE PRINTER IS OFTEN MUCH EASIER THAN YOU MIGHT THINK. I DUMPED THE "GENERAL NOTES" DOCUMENTATION FILE FROM MY FUNNELWEB 4.30 DISKETTE TO THE PRINTER WITHOUT MODIFICATION AND IT COULD BE SENT TO THE PRINTER "AS IS". IT IS EVEN EASIER WITH SOFTWARE THAT IS DESIGNED TO SUPPORT IT.

IF YOU BELONG TO THE SALT LAKE USER GROUP AND IF YOU HAVEN'T GOT YOUR FREE DISK HOLDER PLEASE COME TO THE NEXT MEETING ON MAY 18 PICK UP YOUR DISK HOLDER. IF YOU DON'T THE REMAINING WILL BE GAVE AWAY FOR DOOR PRIZES.

SO COME ON OUT TO TH MEETING AND PICK YOUR FREE GIFT.

AND HAVE SOME FUN WIT THE REST OF US.

1991

January

S	M	T	W	T	F	S
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20	21	22	23	24	25	26
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February

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March

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31						

April

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May

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August

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September

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November

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17	18	19	20	21	22	23	
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December

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May

1991

Sun	Mon	Tue	Wed	Thu	Fri	Sat
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Mother's Day

19	20	21	22	23	24	25
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26	27	28	29	30	31	
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Memorial Day

TI SLAVES AND OGDEN TI USERS GROUPS OFFICERS

TI SLAVES		OGDEN TI USERS GROUP	
VICE PRESIDENT	MARK BARR	DAVE MISCHLER	782-1004
SECRETARY	ALLEN BARR	CHARL BINGHAM	782-1004
NEWSLETTER EDITOR	ALLEN BARR	CHAD SCOTT	782-1004
FOR BOTH GROUPS	MEL BRACE	MEL BRACE	782-1004

MAY 1991 NEWSLETTER

TI SLAVES:
 OUR NEXT MEETING IS MAY 15TH AT 9:00 AM. WE MEET AT THE DISCABLE CABLE CENTER HALL AT 1001 S. OGDEN BLVD. BE THERE PROMPTLY.

OGDEN TI USERS GROUP
 OUR NEXT MEETING IS MAY 14TH AT 9:00 AM. AND MAY 20TH AT 7:00 PM. WE MEET AT THE OGDEN MUNICIPAL AIRPORT IN THE FIRST BUILDING JUST EAST OF THE NEW TOWER.

SLAVES & OTIUG
 1898 LINCOLN APT B
 OGDEN, UTAH 84404

