Mup Version 5.3 Statement Summary

context
staffs voices & staffs voices: *chord* ; ....
[*staffs voices & staffs voices*; *staffs voices*] : *chord* ; ....
lyrics *place staff* : *time_valuelist* [*verses*] "*text*"; ...
linetype bartype **pad** *num ending_mark* **rehearsal** *fontfamily font* (*size*) *rehearsal_mark* **mnum=***num* **=***tag* **hidechanges**
parameter=*value*
multirest *num*
newscore leftmargin=*num* **rightmargin=***num*
newpage leftmargin=*num* **rightmargin=***num*
fontfamily font (*size*) *modifier place staffs* **dist** *num* **!** : *beat* "*text*" **til** *num***m+***num*; ....
mussym (*size*) *place staffs* : *beat* "*mus_symbol*" **til** *num***m+***num*; ....
linetype **phrase** *place staffs* : *beat til num***m+***num*; ....
octave *place staffs* : *beat* "*text*" **til** *num***m+***num*; ....
pedal *place staffs* : *beat* * ; ....
cres_mark place staffs : *beat til num***m+***num*; ....
midi *staffs voices* : *beat* "*midi_keyword*=*value*"; ....
roll *direction staffnum voicenum* **to** *staffnum voicenum* : *beat* ; ....
printcmd location "*text*"
title *fontfamily font* (*size*) "*text*" "*text*" "*text*"
justifytype **paragraph** *fontfamily font* (*size*) "*text*"
linetype **line** *location* **to** *location* **with** *fontfamily font* (*size*) "*text*"
linetype **curve** *location* **to** *location* **to** *location* ....
linetype **curve** *location* **to** *location* **bulge** *num* ....
define *MACRO_NAME*(*mac_params*) *macro_definition* @
ifdef *MACRO_NAME* ..... **else** ..... **endif**
ifndef *MACRO_NAME* ..... **else** ..... **endif**
undef *MACRO_NAME*
if *expression* ..... **else** ..... **endif**
include "*filename*"
fontfile "*filename*"
// *comment—arbitrary text that will be ignored.*

Values used in Mup statements

accidental	**#**, **&**, **x**, **&&**, or **n**
bartype	**bar**, **dblbar**, **repeatstart**, **repeatend**, **repeatboth**, **endbar**, **invisbar**, or **restart**
beat	number from 0.0 to time signature denominator plus 1.0, optionally followed by how many grace notes to back up from there, as a negative number in parentheses, and an offset as a signed number in square brackets
chord	<<*context parameter*=*value*>> [*chord_style*] *time_value pitch(es) note_attributes inter-chord_attr* Tuplets specified by { *chord* ; .... } *side num tupstyle, time_value* ; On tablature staff, the *pitch* is: *string fret* "*bend*"
bend	**full**, or *num* and/or a fraction as *num*/*num*
chord_style	one or more (semicolon-separated) from the following: **grace**, **cue**, **xnote**, **diam**, **with** *withlist*, **pad** *num*, **slash** *num*, *stemdir*, **len** *num*, **dist** *num*, **ho** *num*, **hs** "*headshape*", or **=***tag* Putting **...** after the] will repeat the *chord_style* until **[-]** or end of measure.
clef	**treble**, **soprano**, **mezzosoprano**, **alto** (these have default octave of 4) **treble8**, **tenor**, **baritone**, **bass** (these have default octave of 3) **frenchviolin**, **8treble** (these have default octave of 5)
context	**score**, **staff** *staffnum*, **voice** *staffnum voicenum*, **music**, **top**, **bottom**, **top2**, **bottom2**, **header**, **footer**, **header2**, **footer2**, **grids**, or **headshapes**
cres_mark	< (crescendo) or > (decrescendo)
direction	**up** or **down**
ending_mark	**ending** "*text*" or **endending**
expression	can contain **defined**() () + - ~ ! * / % ^ & | << >> < > <= >= == != && || ?:
filename	path to a file on your system; uses MUPPATH to find, if not in current directory and not absolute path

font	**rom**, **ital**, **bold**, or **boldital**
fontfamily	**avantgarde**, **bookman**, **courier**, **helvetica**, **newcentury**, **palatino, or times**
fret	number from 0 to 99
hex_data	even number of hexadecimal digits
inter-chord_attr	*tieslur_style* **tie** *direction*, *tieslur_style* **slur** *direction*, **bm**, **bm with staff** *side*, **ebm**, **esbm**, **slope** *num*, or **alt** *num*
interval	**perfect**, **major**, **minor**, **augmented**, or **diminished**
justifytype	**justified**, or **ragged**
linetype	**medium**, **wide**, **dashed**, or **dotted** (if omitted, *linetype* is narrow)
location	**(** *tag***.***X* **+** *steps* **+ time** *time_value***,** *tag***.***Y* **+** *steps* **)**
mac_params	comma-separated list of parameter names, same naming rules as *MACRO_NAME*
MACRO_NAME	upper case letters, digits, and/or underscores, beginning with a letter
macro_definition	arbitrary text that will be used wherever *MACRO_NAME* appears in input
midi_keyword	any of the following: **tempo=**_num_ **program=**_num_ **parameter=**_num_**,**_num_ **port=**_num_ **onvelocity=**_num_ **offvelocity=**_num_ **channel=**_num_ **chanpressure=**_num_ **seqnum=**_num_ **text=**_text_ **copyright=**_text_ **name=**_text_ **instrument=**_num_ **marker=**_text_ **cue=**_text_ **hex=**_hex_data_
modifier	**chord**, **analysis**, **figbass**, or omitted
mus_symbol	musical symbol; see chart on page 6 for complete list.
note_attributes	one or more of the following: *tieslur_style* **~** *direction* (tie), *tieslur_style* **< >** *direction) (slur),* **?** (small), **^**_pitch_ (bend), **hs "**_headshape_**"**, or **=**_tag_
num	some number; valid values depend on where it appears
octave	number from **0** to **9** or one or more **+** or **-** signs
parameter	See parameter table on page 5 for complete list
pitch	letter from **a** to **g**, optionally followed by *accidental* and/or *octave*, or **r** (rest), **s** (space), **us** (uncollapseable space), or **rpt** (repeat)
place	**above**, **below**, or **between**. If **between**, *staffs* must be of the form *num***&**_num_
printcmd	**left**, **right**, **center**, **print** or **postscript**
rehearsal_mark	**let**, **num**, **mnum**, or **"**_text_**"**
side	**above** or **below**
size	number from 1 to 100 (points)
staffnum	number from 1 to 40
staffs	number from 1 to 40, or comma-separated list of dash-separated ranges
stemdir	**up** or **down**
stemlen	a number, in stepsizes
steps	a number of stepsizes, where a stepsize is 1/2 the distance between two staff lines
string	in tablature chord: *pitch accidental* followed by zero or more **'** marks
tab_string	list of tablature strings. Each includes a *pitch*, optional **'** marks, and optional *octave.*
tag	a lower case letter, or an underscore followed by lower case letters, digits, and/or underscores Each has 6 associated values: **x**, **y**, **n**, **s**, **e**, and **w** Predefined tag names are **_win**, **_page**, and **_cur**
text	arbitrary text; use **\\"** to include quotes, **\f(**_fontfamily font_**)** to change font, **\s(**_num_**)** to change size, **\(**_xx_**)** to include special characters, **\v(**_num_**)** for vertical motion, **\:** to toggle piling, **\\\|** or **\\^** for alignment
time_value	**1/4**, **1/2**, **1**, **2**, **4**, **8**, **16**, **32**, **64**, **128**, or **256** with optional dots, **+** or **-**; or **m** (measure)
tieslur_style	**dotted**, **dashed**, or omitted
tuplet	See *chord*
tupstyle	**y** (always print bracket), **n** (no number or bracket), **num** (number only), or omitted (default)
value	See information about the item to the left of the = for valid values
verses	number or comma-separated list of dash-separated ranges
voicenum	**1**, **2**, or **3**
voices	*comma-separated list of dash-separated ranges of voicenum*s
withlist	comma-separated list of the following: **.** (stacatto), **-** (legato), **^** (accent), **>** (accent), or **"**_text_**"**
X	**x**, **w**, or **e** (x, west, or east)
Y	**y**, **n**, or **s** (y, north, or south)

Font/size changes in text strings

To change font inside a quoted text string, use **\f(***fontfamily font*) or **\f(***font_abbr*) from the table:

font	*fontfamily*						
	avantgarde	bookman	courier	helvetica	newcentury	palatino	times
rom	AR	BR	CR	HR	NR	PR	TR
bold	AB	BB	CB	HB	NB	PB	TB
ital	AI	BI	CI	HI	NI	PI	TI
boldital	AX	BX	CX	HX	NX	PX	TX

\f(previous) or **\f(PV)** changes to previous font. **\s(***num*) changes to point size *num*, 1 to 100.
\s(+*num*) increases the size by *num* while **\s(-***num*) decreases it by *num* points.
\s(PV) or **\s(previous)** reverts to previous size.

Mup command line arguments

-c *num*	combine *num* or more measures of rest into multirest
-C	used with -E, keep comments rather than discarding them
-d *num*	turn on debugging level *num*
-D *MACRO***=***def*	define *MACRO* as *def*
-e *errfile*	put error output into *errfile*
-E	just expand macros and "include" files and write result to standard output
-f *outfile*	put output into *outfile*
-F	put output into file, deriving output file name from input file name
-m *midifile*	generate MIDI output into *midifile*
-M	generate MIDI output, derive file name
-o *pagelist*	only print pages in *pagelist*, can be list of numbers, or **odd** or **even**
-p *num*	start numbering pages at *num*
-r	print shareware registration form
-s *stafflist*	print only the staffs listed in *stafflist*; add **v***N* to restrict to voice *N*
-v	print version number and exit
-x *M***,***N*	extract measures *M* through *N*, negative relative to end, 0 for pickup

Mupdisp commands

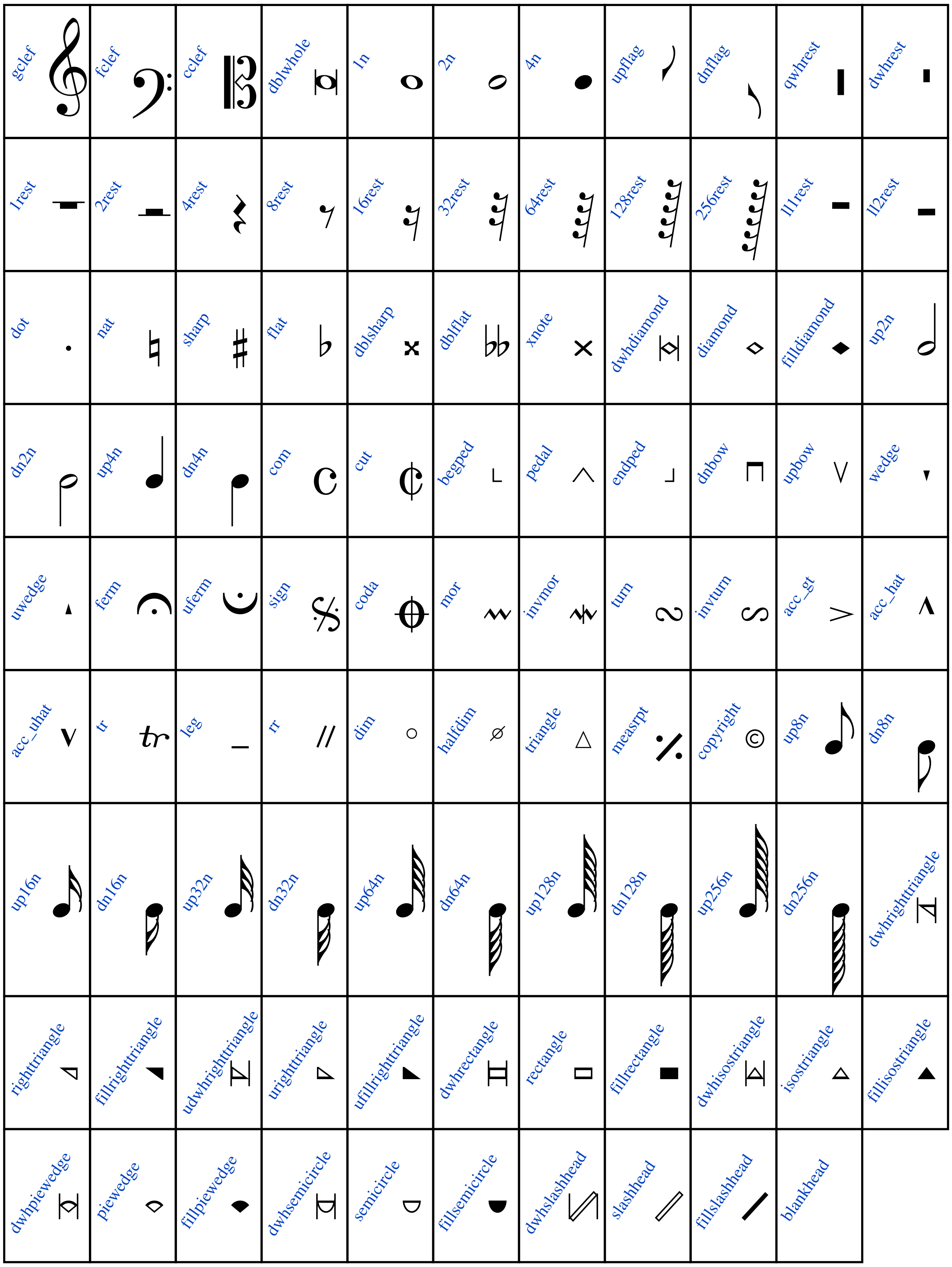
num<Enter>	go to page *num*
+ or <space> or <cntl-E> or <cntl-F>	forward 1/8"
f or <Enter> or <cntl-D> or <cntl-N>	forward 1"
- or <backspace> or <cntl-Y> or <cntl-B>	backward 1/8"
b or <cntrl-U> or <cntl-P> or <cntl-B>	backward 1"
h or **?**	help
m	toggle between full and partial page modes
n	next page
p	previous page
q or **ZZ**	quit
r	repaint the screen

Mup Parameters

Parameter	Score	Staff	Voice	Hd/Ft	Valid Values	Default
aboveorder	•	•			**mussym,octave,dyn&othertext&chord,lyrics,ending,reh**	**as listed**
addtranspose	•	•			**up** or **down**, followed by *interval* and *num*	up perfect 1
barstyle	•				comma-separated lists of staffs or dash-separated ranges	
beamslope	•	•	•		0.0 to 1.0, 0.0 to 45.0	1.0,20.0
beamstyle	•	•	•		comma-separated list of *time_values* that add up to a measure	
beloworder	•	•			**mussym,octave,dyn&othertext&chord,lyrics,pedal**	**as listed**
betweenorder	•	•			**mussym,dyn&othertext&chord,lyrics**	**as listed**
bottommargin	•				0.0 to pageheight minus 0.5 inches	0.5 inches
brace	•				comma-separated list of staffs or dash-separated ranges	
bracket	•				comma-separated list of staffs or dash-separated ranges	
cancelkey	•	•			**y** or **n**	n
chorddist	•	•			0 to 50 (stepsizes)	3
clef	•	•			**treble,treble8,8treble,frenchviolin,soprano,mezzosoprano,alto,tenor,baritone,bass**	treble
defoct	•	•	•		0 to 9	based on clef
dist	•	•			0 to 50 (stepsizes)	2
division	•				MIDI division, 1 to 1536 (ticks per quarter note)	192
dyndist	•	•			0 to 50 (stepsizes)	2
endingstyle	•				**top**, **barred**, or **grouped**	top
firstpage	•				1 to 5000	1
font	•	•		•	**rom**, **bold**, **ital**, or **boldital**	rom
fontfamily	•	•		•	**avantgarde**, **bookman**, **courier**, **helvetica**, **newcentury**, **palatino**, or **times**	times
gridfret	•	•			2 to 99	4
gridsatend	•				**y** or **n**	n
gridswhereused	•	•			**y** or **n**	n
gridscale	•	•			0.1 to 10.0	1.0
key	•	•			*pitch* **major** or **minor**; or 0 to 7 **#** or **&** and optional **major** or **minor**	c major
label2	•	•			**"***text***"**	""
label	•	•			**"***text***"**	" "
leftmargin	•				0.0 to pagewidth minus 0.5 inches	0.5 inches
lyricsalign	•	•			0.0 to 1.0	0.25
lyricsfont	•	•			**rom**, **bold**, **ital**, or **boldital**	rom
lyricsfontfamily	•	•			**avantgarde**, **bookman**, **courier**, **helvetica**, **newcentury**, **palatino**, or **times**	times
lyricssize	•	•			1 to 100 (points)	12
measnum	•				**y** or **n**	n
measnumfont	•				**rom**, **bold**, **ital**, or **boldital**	rom
measnumfontfamily	•				**avantgarde**, **bookman**, **courier**, **helvetica**, **newcentury**, **palatino**, or **times**	times
measnumsize	•				1 to 100 (points)	11

Parameter	Score	Staff	Voice	Hd/Ft	Valid Values	Default
noteheads	•	•	•		string containing 1 or 7 headshape names	"norm"
numbermrpt	•	•			**y** or **n**	y
ontheline	•	•	•		**y** or **n**	y
packexp	•				0.0 to 1.0	0.8
packfact	•				0.0 to 10.0	1.0
pad	•	•	•		-5.0 to 50.0	0.0
pageheight	•				2.0 to 24.0 inches or 5.0 to 61.0 cm	11.0 inches
pagesize	•				**letter, legal, flsa, halfletter, a4, a5, a6** then optional **portrait** or **landscape**	letter
pagewidth	•				2.0 to 24.0 inches or 5.0 to 61.0 cm	8.5 inches
panelsperpage	•				1 or 2	1
pedstyle	•	•			**line**, **pedstar**, or **alt pedstar**	line
printmultnum	•	•			**y** or **n**	y
rehstyle	•	•			**boxed**, **circled**, or **plain**	boxed
release	•	•	•		0 to 500 (milliseconds)	20
restcombine	•				2 to 1000	not set
restsymmult	•	•			**y** or **n**	n
rightmargin	•				0.0 to pagewidth minus 0.5 inches	0.5 inches
scale	•				0.1 to 10.0	1.0
scorepad	•				*num*, or *num***,***num*, negative pageheight to pageheight (stepsizes)	2,2
scoresep	•				*num*, or *num***,***num*, 6 to pageheight (stepsizes)	12,20
size	•	•		•	1 to 100	12
stafflines	•	•			**1**, **1n**, **5**, **5n**, **5 drum**, **1 drum**, or **tab (***tab_strings***)**	5
staffpad	•	•			negative pageheight to pageheight (stepsizes)	0
staffs	•				1 to 40	1
staffscale	•	•			0.1 to 10.0	1.0
staffsep	•	•			6 to pageheight (stepsizes)	10
stemlen	•	•	•		0.0 to 100.0 (stepsizes)	7.0
stemshorten	•	•	•		0.0 to 2.0 (stepsizes)	1.0
swingunit	•	•	•		time value or nothing	nothing
sylposition	•	•			-100 to 100 (points)	-5
tabwhitebox	•	•	•		**y** or **n**	n
time	•				**common**, **cut** or *N***/***D* where *N* is 1 to 99 and *D* is **1**, **2**, **4**, **8**, **16**, **32**, or **64**	4/4
timeunit	•	•	•		*time_value* (can include dots)	*D* of time sig
topmargin	•				0.0 to pageheight minus 0.5 inches	0.5 inches
transpose	•	•			**up** or **down**, followed by *interval* and *num*	up perfect 1
units	•				**inches** or **cm**	inches
visible	•	•	•		**y**, **n**, or **whereused**	y
vcombine	•	•			list of staffs, plus optional **nooverlap**, **shareone**, or **overlap**, or nothing	nothing
vscheme	•	•			**1**, **2o**, **2f**, **3o**, or **3f**	1
warn	•				**y** or **n**	y

Music symbols can be used in text strings by using \(*symbol_name*). Prefix with **sm** for smaller version.



	exclamdown	
.	questiondown	
"	sterling	
#	yen	
$	quotedblleft	``
-	quotedblright	´´
%	guillemotleft	<<
&	guillemotright	>>
’	guilsinglleft	
(	guilsinglright	
)	dagger	
*	daggerdbl	
/	grave	
0	acute	
1	macron	
2	breve	
3	dotaccent	
4	dieresis	
5	ring	
6	cedilla	
7	hungarumlaut	
8	ogonek	
9	caron	
:	emdash	
	space	
;	AE	
<	ae	
=	ordfeminine	
>	ordmasculine	
?	Lslash	L/
@	lslash	l/
A	Oslash	O/
B	oslash	o/
C	OE	
D	oe	
E	dotlessi	
F	germandbls	ss
G	Aacute	A’
H	aacute	a’
I	Acircumflex	A^
J	acircumflex	a^
K	Adieresis	A:
L	adieresis	a:
M	Agrave	A‘
N	agrave	a‘
O	Aring	Ao
P	oring	ao
Q	Atilde	A~
R	atilde	a~
S	Ccedilla	C,
T	ccedilla	c,
U	Eacute	E’
V	eacute	e’
W	Ecircumflex	E^
X	ecircumflex	e^
Y	Edieresis	E:
Z	edieresis	e:
[	Egrave	E‘
\	egrave	e‘
]	Iacute	I’
^	iacute	i’
_	Icircumflex	I^
‘	icircumflex	i^
a	Idieresis	I:
b	idieresis	i:
c	Igrave	I‘
d	igrave	i‘
e	Ntilde	N~
f	ntilde	n~
g	Oacute	O’
h	oacute	o’
i	Ocircumflex	O^
j	ocircumflex	o^
k	Odieresis	O:
l	odieresis	o:
m	Ograve	O‘
n	ograve	o‘
o	Otilde	O~
p	otilde	o~
q	Scaron	Sv
r	scaron	sv
s	Uacute	U’
t	uacute	u’
u	Ucircumflex	U^
v	ucircumflex	u^
w	Udieresis	U:
x	udieresis	u:
y	Ugrave	U‘
z	ugrave	u‘
{	Ydieresis	Y:
|	ydieresis	y:
}	Zcaron	Zv
~	zcaron	zv
+	bullet	

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