

## Grande

## Grande::Time

id	value
dns	$((\text{dat0} \& 127) * 10)$

id	value
mks	$((\text{dat0} \& 65408) \gg 7) \mid ((\text{dat1} \& 1) \ll 9)$

id	value
mls	$((\text{dat1} \& 2046) \gg 1)$

id	value
s	$((\text{dat1} \& 63488) \gg 11) \mid ((\text{dat2} \& 1) \ll 5)$

id	value
h	$((\text{dat2} \& 3968) \gg 7)$

id	value
m	$((\text{dat2} \& 126) \gg 1)$

## Grande::Package

pos	size	type	id
0	2	u2le?DataTypes	data_type
2	2	u2le	package_size
4	4	u4le	event_number
8	4	u4le	error_count
12	8	Time	time
20	4	ClusterInfo	cluster_info
24	...	Data	data
repeat 8 times			
...	4	FF FF FF FF	end_of_package

## Grande::Data

pos	size	type	id
0	4	u4le	vme_addres
4	2	u2le	data_count
6	2	ChannelInfo	channel_info
8	2	u2le	data
repeat data_count times			

## Grande::ChannelInfo

pos	size	type	id
0	4b	b4	channel_number
0:4	1b	BitsType1	bank_number
0:5	2b	b2	link_number
0:7	9b	b9	reserved

## Grande::ClusterInfo

pos	size	type	id
0	1	b8	cluster_number
1	1	b8	reserved
2	2	b16	optical_line_lenght

pos	size	type	id
0	...	Package	packages
repeat to end of stream			