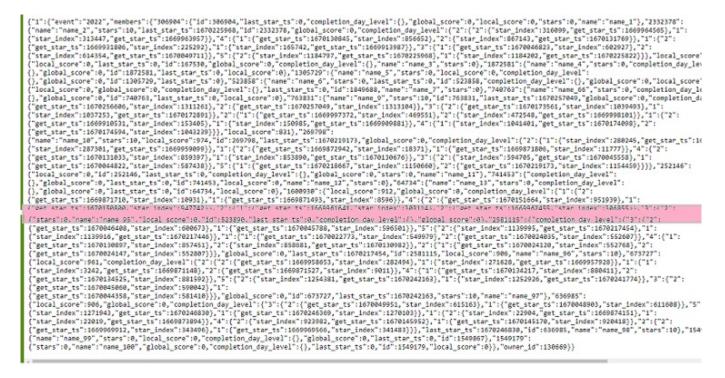
Article <u>Robert Cemper</u> · Jan 30, 2023 1m read

## JSONfile-to-Global #2

The power of the presented tool becomes visible with a large JSON file. The example I have prepared is composed of the daily results of AoC 2023. Anonymization makes it usable for demo purposes.

As the original, it is an uninterrupted sequence of bytes without any NewLine or similar. 6 660 895 Bytes raw in sequence (as by NTFS). With this content (shrinked):



It is loaded into an %DynamicObject using the method %FromJSONfile. If you try to investigate that object using ZWRITE you end with <MAXSTRING> And this is perfectly correct. The maximum string size is exceeded.

If you iterate down to the embedded JSON objects this conflict is gone as they are only 30kB The mystery is exercised by <u>%Stream.DynamicCharacter</u> which acts in the background.

The resulting Global is as huge as its source. But now you can navigate and examine the individual elements. A snapshot from SMP in the resulting Global top subscript

Global	Node: <mark>^json</mark>			Cancel Delete
Search	History: Ajson		~	Maximum Rows: 100
	*			
1:	<u>1</u>			
2:	<u>2</u> >			
3:	<u>3</u> ++>			
4:	<u>4</u>			
5:	<u>5</u> ++>			
6:	<u>6</u> ++>			
7:	<u>Z</u> ++>			
8:	<u>8</u> ++			
9:	<u>9</u> ++			
10:	<u>10</u> ++>			
11:	<u>11</u> >			
12:	<u>12</u> ···			
13:	<u>13</u>			
14:	<u>14</u> )			
15:	<u>15</u> ++>			
16:	<u>16</u> ++>			
17:	<u>17</u> ++>			
18:	<u>18</u> ++>			
19:	<u>19</u> >			
20.	20.15			
246:	<u>246</u> ++>			
247:	<u>247</u> ++>			
248:	<u>248</u> ++			
249:	<u>249</u> ++			
250:	<u>250</u> ++>			
251:	author	=		
252:	dependencies •			
253:	description	=		
254:	license	= <u>ISC</u>		
255:	main	= <u>index.js</u>		
256:	name	= <u>GitHub</u>		
257:	number	= <u>123456</u>		
258:	<u>scripts</u> ↔			
259:	version	= 1.0.0		

and total:

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JSONfile-to-Global #2 Published on InterSystems Developer Community (https://community.intersystems.com)

	^json(250,"members",2581115,"completion_day_level",4,1,"get_star	
276481:	^json(250,"members",2581115,"completion_day_level",4,1,"star_ind	lex") = 857451
276482:	<pre>^json(250,"members",2581115,"completion_day_level",4,2,"get_star</pre>	_ts") = 1670130982
276483:	^json(250, "members", 2581115, "completion_day_level", 4, 2, "star_ind	lex") = 858681
276484:	^json(250, "members", 2581115, "completion day level", 5, 1, "get star	_ts") = 1670217446
276485:	^json(250, "members", 2581115, "completion_day_level", 5, 1, "star_ind	lex") = 1139916
	^json(250, "members", 2581115, "completion day level", 5, 2, "get star	
276487:	^json(250,"members",2581115,"completion_day_level",5,2,"star_ind	lex") = 1139995
	<pre>^json(250,"members",2581115,"global_score")</pre>	= 0
276489:	^json(250,"members",2581115,"id")	= 2581115
276490:	^json(250,"members",2581115,"last_star_ts")	= 1670217454
276491:	<pre>^json(250,"members",2581115,"local_score")</pre>	= 906
276492:	^json(250,"members",2581115,"name")	= name_96
276493:	^json(250,"members",2581115,"stars")	= 10
276494:	^json(250,"members",2668789,"global_score")	= 0
276495:	^json(250,"members",2668789,"id")	= 2668789
276496:	^json(250,"members",2668789,"last_star_ts")	= 0
276497:	^json(250,"members",2668789,"local_score")	= 0
276498:	^json(250,"members",2668789,"name")	$=$ name_55
276499:	^json(250,"members",2668789,"stars")	= 0
276500:	^json(250,"owner_id")	= 130669

I had to run this from Terminal as SMP failed after a few 10000 lines and used this single line instead:

s g="^json" f i=1:1 s g=\$q(@g,1,v) q:g="" w i,":",?8,g,?78,"= ",v,!

<u>Video</u>

<u>GitHub</u>

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