

LA-UR-20-29966

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Title: Vim Syntax File for MCNP Input Files

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Intended for: Report

Issued: 2020-12-03

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Vim Syntax File for MCNP Input Files

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This report provides a Vim syntax file for MCNP® input files. This file has been tested with Vim 8.2.1719 on macOS 10.15.7 and incorporates many of the input cards and keywords described in [1, Chapter 3].

For convenience, the MCNP syntax file is listed in Appendix A and also provided as an electronic attachment to this PDF. Brief instructions for how to retrieve and use it are also included in Appendix A.

An example MCNP input file using the attached Vim syntax file with a variety of color schemes is shown in Fig. 1.

A reasonable effort has been made to properly parse and highlight MCNP input files in a helpful manner. However, as deficiencies in the attached syntax file are identified they will be listed below until resolved. Known deficiencies include:

1. If the title card contains an MCNP card name or keyword, then title-card highlighting will be partially compromised.

References

- [1] C. J. Werner, J. Armstrong, F. B. Brown, J. S. Bull, L. Casswell, L. J. Cox, D. Dixon, R. A. Forster, J. T. Goorley, H. G. Hughes, J. Favorite, R. Martz, S. G. Mashnik, M. E. Rising, C. J. Solomon, A. Sood, J. E. Sweezy, A. Zukaitis, C. Anderson, J. S. Elson, J. W. Durkee, R. C. Johns, G. W. McKinney, G. E. McMath, J. S. Hendricks, D. B. Pelowitz, R. E. Prael, T. E. Booth, M. R. James, M. L. Fensin, T. A. Wilcox, and B. C. Kiedrowski, “MCNP User’s Manual, Code Version 6.2,” Los Alamos National Laboratory, Los Alamos, NM, USA, Tech. Rep. LA-UR-17-29981, Oct. 2017. URL: <http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-17-29981>

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(a) Default (Light)

(b) Torte (Dark)

(c) Molokai (Dark)

(d) PaperColor (Light)

(e) Solarized (Light)

(f) onehalf (Light)

(g) PaperColor (Dark)

(h) Solarized (Dark)

(i) onehalf (Dark)

Figure 1: Example MCNP Input File with Syntax Highlighting

A Vim Syntax File for MCNP Input Files

Listing 1 provides a Vim syntax file for MCNP input files. This file can be used by naming it `mcnp.vim` and placing it in the `~/.vim/syntax` directory (on Linux and macOS) and enabled within Vim using the command `:set ft=mcnp`.

For convenience, the MCNP syntax file in Listing 1 is also provided as an electronic attachment to this PDF, which can be accessed using Adobe Acrobat through the menu path shown in Fig. 2.

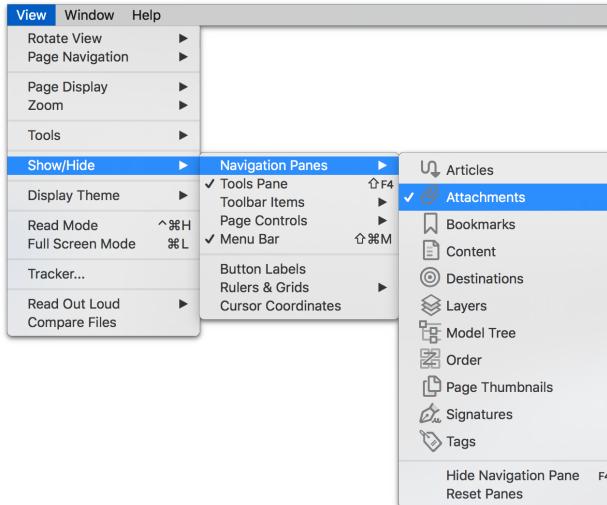


Figure 2: Adobe Acrobat Menu Path to Access PDF Attachments

Listing 1: Vim Syntax File for MCNP Input Files (mcnp.vim)

```
1 " Vim syntax file
2 " Language: MCNP Input File
3 " Version: 1.1.0
4 " Maintainer: Joel A. Kulesza <jkulesza@lanl.gov>
5 " Creator: Joel A. Kulesza <jkulesza@lanl.gov>
6 " Latest Revision: 01 December 2020
7 " First Revision: 05 June 2017
8 "
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26 " COMPLETENESS, OR USEFULNESS OF ANY INFORMATION, APPARATUS, PRODUCT, OR PROCESS
```

```

27 " DISCLOSED, OR REPRESENTS THAT ITS USE WOULD NOT INFRINGE PRIVATELY OWNED
28 " RIGHTS.
29
30 if version < 600
31   syntax clear
32 elseif exists("b:current_syntax")
33   finish
34 endif
35
36 syntax case ignore
37
38 ****
39 " Preliminaries.
40 ****
41
42 " Title card.
43 syn match mcnpTitle "\%1l.*$"
44
45 " Comments.
46 syn match mcnpComment "^\\s\\{0,4\\}c\\s.*$"
47 syn match mcnpComment "^.\\s\\{0,4\\}c$"
48 syn match mcnpComment "$.*$"
49
50 " Constants and operators.
51 syn match mcnpConstant "\\d*j"
52 syn match mcnpOperator "="
53 syn match mcnpOperator "("
54 syn match mcnpOperator ")"
55
56 syn match mcnpOperator ":" 
57 syn match mcnpVariable "d\\d\\+"
58 syn match mcnpOperator "#"
59
60 ****
61 " Cell keywords.
62 ****
63 syn keyword mcnpKeyword like but
64 syn match mcnpKeyword "mat"
65 syn match mcnpKeyword "rho"
66 syn match mcnpKeyword "imp"
67 syn match mcnpKeyword "vol"
68 syn match mcnpKeyword "pwt"
69 syn match mcnpKeyword "ext"
70 syn match mcnpKeyword "fc1"
71 syn match mcnpKeyword "wwn"
72 syn match mcnpKeyword "dxc"
73 syn match mcnpKeyword "nonu"
74 syn match mcnpKeyword "pd"
75 syn match mcnpKeyword "tmp"
76 syn match mcnpKeyword "trcl"
77 syn match mcnpKeyword "fill"
78 syn match mcnpKeyword "elpt"
79 syn match mcnpKeyword "cosy"
80 syn match mcnpKeyword "bflcl"
81 syn match mcnpKeyword "unc"
82 syn match mcnpKeyword " u"
83 syn match mcnpKeyword "lat"
84
85 syn match mcnpCard "^.\\s\\{0,4\\}u"
86 syn match mcnpCard "^.\\s\\{0,4\\}lat"
87 syn keyword mcnpCard uran
88
89 ****
90 " Surface keywords.
91 ****

```

```

92 syn keyword mcnpKeyword p px py pz so s sx sy sz cx cy cz kx ky kz sq gq tx ty tz xyzp
93 syn match mcnpKeyword "c\\/x"
94 syn match mcnpKeyword "c\\/y"
95 syn match mcnpKeyword "c\\/z"
96 syn match mcnpKeyword "k\\/x"
97 syn match mcnpKeyword "k\\/y"
98 syn match mcnpKeyword "k\\/z"
99 syn keyword mcnpKeyword box rpp sph rcc rhp hex rec trc ell wed arb
100
101 "-----"
102 " Data keywords."
103 "-----"
104
105 " Geometry data cards."
106 syn match mcnpCard "^\\s\\{0,4}vol"
107 syn match mcnpCard "^\\s\\{0,4}area"
108 syn match mcnpCard "^\\s\\{0,4}\\**trcl"
109 syn match mcnpCard "^\\s\\{0,4}\\**tr\\d\\+"
110
111 " Mesh geometry data cards."
112 syn match mcnpCard "^\\s\\{0,4}mesh"
113 syn keyword mcnpKeyword geom ref origin axs vec imesh iints jmesh jints kmesh kints
114
115 syn match mcnpCard "^\\s\\{0,4}dm"
116 syn match mcnpCard "^\\s\\{0,4}dawwg"
117
118 syn match mcnpKeyword "embed"
119 syn match mcnpCard "^\s\\{0,4}embed\\d\\+"
120 syn keyword mcnpKeyword background matcell meshgeo mgeoin meeout meein calc_vols filetype gmvfile length mcnpumfile overlap
121 syn keyword mcnpConstant yes no lnk3dnt abaqus mcnpum ascii binary exit entry average
122
123 syn match mcnpCard "^\s\\{0,4}embee\\d\\+"
124 syn keyword mcnpKeyword energy time atom factor list mat mtype
125 syn keyword mcnpConstant flux isotopic population reaction source tracks
126
127 syn match mcnpCard "^\s\\{0,4}embeb"
128 syn match mcnpCard "^\s\\{0,4}embem"
129 syn match mcnpCard "^\s\\{0,4}embtb"
130 syn match mcnpCard "^\s\\{0,4}embtm"
131 syn match mcnpCard "^\s\\{0,4}embde"
132 syn match mcnpCard "^\s\\{0,4}embdf"
133
134 " Materials."
135 syn match mcnpCard "^\s\\{0,4}m\\d\\+"
136 syn match mcnpCard "^\s\\{0,4}mt\\d\\+"
137 syn match mcnpCard "^\s\\{0,4}mx\\d\\+"
138 syn match mcnpCard "^\s\\{0,4}xs\\d\\+"
139 syn match mcnpCard "^\s\\{0,4}otfdb"
140 syn match mcnpCard "^\s\\{0,4}totnu"
141 syn match mcnpCard "^\s\\{0,4}nonu"
142 syn match mcnpCard "^\s\\{0,4}awtab"
143 syn match mcnpCard "^\s\\{0,4}void"
144 syn match mcnpCard "^\s\\{0,4}mgopt"
145 syn match mcnpCard "^\s\\{0,4}drxs"
146
147 " Thermal scattering data."
148 " LA-UR-17-20709
149 syn match mcnpConstant "al27.\\d\\+t"
150 syn match mcnpConstant "be.\\d\\+t"
151 syn match mcnpConstant "be-o.\\d\\+t"
152 syn match mcnpConstant "benz.\\d\\+t"
153 syn match mcnpConstant "beo.\\d\\+t"
154 syn match mcnpConstant "dortho.\\d\\+t"
155 syn match mcnpConstant "dpara.\\d\\+t"
156 syn match mcnpConstant "fe56.\\d\\+t"

```

```

157 syn match mcnpConstant "grph.\d\+t"
158 syn match mcnpConstant "h-zr.\d\+t"
159 syn match mcnpConstant "h/zr.\d\+t"
160 syn match mcnpConstant "hortho.\d\+t"
161 syn match mcnpConstant "hpara.\d\+t"
162 syn match mcnpConstant "hwtr.\d\+t"
163 syn match mcnpConstant "lmeth.\d\+t"
164 syn match mcnpConstant "lwtr.\d\+t"
165 syn match mcnpConstant "o-be.\d\+t"
166 syn match mcnpConstant "o/be.\d\+t"
167 syn match mcnpConstant "o2-u.\d\+t"
168 syn match mcnpConstant "o2-u.\d\+t"
169 syn match mcnpConstant "poly.\d\+t"
170 syn match mcnpConstant "si02.\d\+t"
171 syn match mcnpConstant "smeth.\d\+t"
172 syn match mcnpConstant "u-o2.\d\+t"
173 syn match mcnpConstant "u/o2.\d\+t"
174 syn match mcnpConstant "zr-h.\d\+t"
175 syn match mcnpConstant "zr/h.\d\+t"
176 " ENDF/B-VIII
177 syn match mcnpConstant "al-27.\d\+t"
178 syn match mcnpConstant "be-beo.\d\+t"
179 syn match mcnpConstant "be-met.\d\+t"
180 syn match mcnpConstant "benz.\d\+t"
181 syn match mcnpConstant "c-sic.\d\+t"
182 syn match mcnpConstant "d-d2o.\d\+t"
183 syn match mcnpConstant "fe-56.\d\+t"
184 syn match mcnpConstant "grph10.\d\+t"
185 syn match mcnpConstant "grph30.\d\+t"
186 syn match mcnpConstant "grph.\d\+t"
187 syn match mcnpConstant "h-h2o.\d\+t"
188 syn match mcnpConstant "h-ice.\d\+t"
189 syn match mcnpConstant "h-luci.\d\+t"
190 syn match mcnpConstant "h-poly.\d\+t"
191 syn match mcnpConstant "h-yh2.\d\+t"
192 syn match mcnpConstant "h-zrh.\d\+t"
193 syn match mcnpConstant "lmeth.\d\+t"
194 syn match mcnpConstant "n-un.\d\+t"
195 syn match mcnpConstant "o-beo.\d\+t"
196 syn match mcnpConstant "o-d2o.\d\+t"
197 syn match mcnpConstant "o-ice.\d\+t"
198 syn match mcnpConstant "orthoD.\d\+t"
199 syn match mcnpConstant "orthoH.\d\+t"
200 syn match mcnpConstant "o-uo2.\d\+t"
201 syn match mcnpConstant "paraD.\d\+t"
202 syn match mcnpConstant "paraH.\d\+t"
203 syn match mcnpConstant "sio2.\d\+t"
204 syn match mcnpConstant "si-sic.\d\+t"
205 syn match mcnpConstant "smeth.\d\+t"
206 syn match mcnpConstant "u-un.\d\+t"
207 syn match mcnpConstant "u-uo2.\d\+t"
208 syn match mcnpConstant "y-yh2.\d\+t"
209 syn match mcnpConstant "zr-zrh.\d\+t"
210
211 " Physics data cards.
212 syn match mcnpCard "\^\\s\\{0,4}mode"
213 syn match mcnpCard "\^\\s\\{0,4}phys"
214 syn match mcnpCard "\^\\s\\{0,4}cut"
215 syn match mcnpCard "\^\\s\\{0,4}tmp"
216 syn match mcnpCard "\^\\s\\{0,4}thtme"
217 syn match mcnpCard "\^\\s\\{0,4}mphys"
218 syn match mcnpCard "\^\\s\\{0,4}unc"
219 syn match mcnpCard "\^\\s\\{0,4}cosyp"
220 syn match mcnpCard "\^\\s\\{0,4}cosy"
221 syn match mcnpKeyword "field"

```

```

222 syn match mcnpCard "^\\s\\{0,4}field"
223
224 syn match mcnpCard "^\\s\\{0,4}act"
225 syn keyword mcnpKeyword fission nonfiss dn dg thresh dnbias nap dneb dgeb pecut hlcut sample
226
227 syn match mcnpCard "^\\s\\{0,4}lca"
228 syn keyword mcnpKeyword ielas ipreq iexisa ichoic jcoul nexite npidk noact icem ilaq nevtype
229 syn match mcnpCard "^\\s\\{0,4}lcb"
230 syn match mcnpCard "^\\s\\{0,4}lcc"
231 syn match mcnpCard "^\\s\\{0,4}lea"
232 syn match mcnpCard "^\\s\\{0,4}leb"
233
234 syn match mcnpCard "^\\s\\{0,4}fmult"
235 syn keyword mcnpKeyword width sfield watt method data shift
236
237 syn match mcnpCard "^\\s\\{0,4}trop"
238 syn keyword mcnpKeyword mscat eloss nreact nescat genxs
239
240 syn match mcnpCard "^\\s\\{0,4}bfld"
241 syn keyword mcnpKeyword vec mxdeflc maxstep axs ffedges refpnt
242
243 " Source specification.
244 syn match mcnpCard "^\\s\\{0,4}sdef"
245 syn keyword mcnpKeyword sur erg tme dir vec nrm pos rad ext axs ccc ara wgt tr eff par dat loc bem bap
246 syn match mcnpCard "^\\s\\{0,4}si\\d\\+"
247 syn match mcnpCard "^\\s\\{0,4}sp\\d\\+"
248 syn match mcnpCard "^\\s\\{0,4}sb\\d\\+"
249 syn match mcnpCard "^\\s\\{0,4}ds\\d\\+"
250 syn match mcnpCard "^\\s\\{0,4}sc\\d\\+"
251 syn match mcnpCard "^\\s\\{0,4}ssw"
252 syn match mcnpCard "^\\s\\{0,4}ssr"
253 syn match mcnpCard "^\\s\\{0,4}kcode"
254 syn match mcnpCard "^\\s\\{0,4}ksrc"
255 syn match mcnpCard "^\\s\\{0,4}hsrc"
256 syn match mcnpCard "^\\s\\{0,4}burn"
257
258 " Tallies.
259 syn match mcnpCard "^\\s\\{0,4}\\+\\{0,1}\\*\\{0,1}f\\d\\+"
260 syn match mcnpCard "^\\s\\{0,4}fc\\d\\+"
261 syn match mcnpCard "^\\s\\{0,4}e\\d\\+"
262 syn match mcnpCard "^\\s\\{0,4}t\\d\\+"
263 syn match mcnpCard "^\\s\\{0,4}c\\d\\+"
264 syn match mcnpCard "^\\s\\{0,4}\\*c\\d\\+"
265 syn match mcnpCard "^\\s\\{0,4}fa\\d\\+"
266 syn match mcnpCard "^\\s\\{0,4}fm\\d\\+"
267 syn match mcnpCard "^\\s\\{0,4}em\\d\\+"
268 syn match mcnpCard "^\\s\\{0,4}tm\\d\\+"
269 syn match mcnpCard "^\\s\\{0,4}cm\\d\\+"
270 syn match mcnpCard "^\\s\\{0,4}cf\\d\\+"
271 syn match mcnpCard "^\\s\\{0,4}sf\\d\\+"
272 syn match mcnpCard "^\\s\\{0,4}fs\\d\\+"
273 syn match mcnpCard "^\\s\\{0,4}sd\\d\\+"
274 syn match mcnpCard "^\\s\\{0,4}fu\\d\\+"
275 syn match mcnpCard "^\\s\\{0,4}tf\\d\\+"
276
277 syn match mcnpCard "^\\s\\{0,4}cm\\d\\+"
278 syn match mcnpCard "^\\s\\{0,4}fic\\d\\+"
279 syn match mcnpCard "^\\s\\{0,4}fip\\d\\+"
280 syn match mcnpCard "^\\s\\{0,4}fir\\d\\+"
281
282 syn match mcnpCard "^\\s\\{0,4}d[ef]\\s\\+"
283 syn match mcnpCard "^\\s\\{0,4}d[ef]\\d\\+"
284 syn match mcnpCard "^\\s\\{0,4}d[ef]\\d\\+"
285 syn keyword mcnpKeyword iu fac ic
286 syn keyword mcnpConstant log lin

```

```

287 " Special tally treatments.
288 syn match mcnpCard "\s\{0,4\}ft\d\+"
289 syn keyword mcnpCard frv geb tmc inc icd scx scd elc ptt phl cap res tag let roc pds fft com
290
291 " Perturbation and sensitivity cards.
292 syn match mcnpCard "\s\{0,4\}pert\d\+"
293 syn keyword mcnpKeyword cell mat rho method erg rxn
294
295 syn match mcnpCard "\s\{0,4\}kpert\d\+"
296 syn keyword mcnpKeyword cell mat rho iso rxn erg linear
297
298 syn match mcnpCard "\s\{0,4\}ksen\d\+"
299 syn keyword mcnpKeyword iso rxn mt erg ein legendre cos constrain
300
301 " TMesh.
302 syn match mcnpKeyword "tmesh"
303 syn match mcnpCard "\s\{0,4\}tmesh"
304 syn match mcnpCard "\s\{0,4\}rmesh\d\+"
305 syn match mcnpCard "\s\{0,4\}cmesh\d\+"
306 syn match mcnpCard "\s\{0,4\}smesh\d\+"
307 syn match mcnpCard "\s\{0,4\}cor[abc]\d\+"
308 syn match mcnpCard "\s\{0,4\}ergsh"
309 syn match mcnpCard "\s\{0,4\}mshmf\d\+"
310 syn match mcnpCard "\s\{0,4\}endmd"
311 syn match mcnpCard "\s\{0,4\}endmd"
312 syn keyword mcnpKeyword traks flux dose popul pedep mfact trans
313 syn keyword mcnpKeyword total recol ttest edlct
314 syn match mcnpKeyword "de\//dx"
315
316 " FMesh.
317 syn match mcnpCard "\s\{0,4\}\*\{\{0,1\}fmesh\d\+"
318 syn keyword mcnpKeyword geom origin axs vec
319 syn keyword mcnpKeyword imesh iints jmesh jints kmesh kints emesh eints enorm tints tnorm
320 syn keyword mcnpKeyword out tr inc type kclear
321 syn keyword mcnpConstant xyz rzt col cf ij ik jk none
322
323 " Variance-reduction cards.
324 syn match mcnpCard "\s\{0,4\}imp"
325 syn match mcnpCard "\s\{0,4\}var"
326 syn match mcnpCard "\s\{0,4\}wwe"
327 syn match mcnpCard "\s\{0,4\}wwt"
328 syn match mcnpCard "\s\{0,4\}wwn\d\+"
329 syn match mcnpCard "\s\{0,4\}wwp"
330 syn match mcnpCard "\s\{0,4\}wwg"
331 syn match mcnpCard "\s\{0,4\}wwge"
332 syn match mcnpCard "\s\{0,4\}wwgt"
333 syn match mcnpCard "\s\{0,4\}esplt"
334 syn match mcnpCard "\s\{0,4\}tsplt"
335 syn match mcnpCard "\s\{0,4\}ext"
336 syn match mcnpCard "\s\{0,4\}vect\s+v"
337 syn match mcnpCard "\s\{0,4\}fcl"
338 syn match mcnpCard "\s\{0,4\}dxt"
339 syn match mcnpCard "\s\{0,4\}dd\d*"
340 syn match mcnpCard "\s\{0,4\}pd\d\+"
341 syn match mcnpCard "\s\{0,4\}dxc\d\+"
342 syn match mcnpCard "\s\{0,4\}bbrem"
343 syn match mcnpCard "\s\{0,4\}pikmt"
344 syn match mcnpCard "\s\{0,4\}spabi"
345 syn match mcnpCard "\s\{0,4\}pwt"
346
347 " Problem-termination cards.
348 syn match mcnpKeyword "nps"
349 syn match mcnpCard "\s\{0,4\}nps"
350 syn match mcnpCard "\s\{0,4\}ctme"
351 syn match mcnpCard "\s\{0,4\}stop"

```

```

352 " Output-control cards.
353 syn match mcnpCard "^\\s\\{0,4}print"
355 syn match mcnpCard "^\\s\\{0,4}talnp"
356 syn match mcnpCard "^\\s\\{0,4}prdmp"
357
358 syn match mcnpCard "^\\s\\{0,4}ptrac"
359 syn keyword mcnpKeyword buffer file max meph write coinc event filter type cell surface tally value
360 syn keyword mcnpConstant asc bin all src bnk sur col ter
361 syn keyword mcnpConstant impl imp2 imp3 spare1 spare2 spare3 icl jsu idx ncp lev iii jjj kkk
362
363 syn match mcnpCard "^\\s\\{0,4}mplot"
364 syn match mcnpCard "^\\s\\{0,4}histp"
365
366 syn match mcnpCard "^\\s\\{0,4}read"
367 syn keyword mcnpKeyword file noecho echo decode encode
368
369 syn match mcnpCard "^\\s\\{0,4}rand"
370 syn keyword mcnpKeyword gen seed stride hist
371
372 syn match mcnpCard "^\\s\\{0,4}dbcn"
373 syn match mcnpCard "^\\s\\{0,4}lost"
374 syn match mcnpCard "^\\s\\{0,4}idum"
375 syn match mcnpCard "^\\s\\{0,4}rdum"
376 syn match mcnpCard "^\\s\\{0,4}files"
377
378 " Other data cards.
379 syn match mcnpCard "^\\s\\{0,4}spdtl"
380 syn match mcnpCard "^\\s\\{0,4}notrn"
381
382 #####
383 " Final actions.
384 #####
385
386 hi link mcnpCard Statement
387 hi link mcnpComment Comment
388 hi link mcnpConstant Constant
389 hi link mcnpKeyword Keyword
390 hi link mcnpOperator Operator
391 hi link mcnpTitle Special
392 hi link mcnpVariable Constant
393
394 let b:current_syntax = "mcnp"

```