

/Users/lp1opa/Compare/camb_simdata/Makefile, Top line: 1

```
01 #CAMB Makefile
02
03 #Set FISHER=Y to compile bispec
04 FISHER=
05
06 #Edit for your compiler
07 #Note there are many old ifort
08
09
10 #Intel , -openmp toggles mutli-
11 #note version 10.0 gives wrong
12 F90C = ifort
13 FFLAGS = -openmp -fast -W0 -WB
14 ## This is flag is passed to th
```

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```
001 #CAMB Makefile
002
003 #Set FISHER=Y to compile bispe
004 FISHER=
005
006 #native optimization does not
007 CLUSTER_SAFE ?= 1
008 ifneq ($(CLUSTER_SAFE), 0)
009 NONNATIVE = 1
010 endif
011
012 #Will detect ifort/gfortran or
013 ifneq ($(COMPILER),gfortran)
014 ifortErr = $(shell which ifort
015 else
016 ifortErr = 1
017 endif
018 ifeq "$(ifortErr)" "0"
019
020 #Intel compiler
021
022 F90C = ifort
023 FFLAGS = -W0 -WB -fpp
024 DEBUGFLAGS = -g -check all -ch
025
026 ifeq ($(shell uname -s),Darwin)
027 SFFLAGS = -dynamiclib -fpic
028 else
029 SFFLAGS = -shared -fpic
030 endif
```

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15 F90CRLINK = -cxxlib

16 ifneq (\$(FISHER),)
17 FFLAGS += -mkl
18 endif
19

20 #Gfortran compiler:
21 #The options here work in v4.5,

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030
031 ifdef NONNATIVE
032 FFLAGS+=-O3 -ipo -axCORE-AVX2
033 else
034 FFLAGS+=-fast
035 endif

036
037 ifortVer_major = \$(shell ifort
038 ifeq (\$(shell test \$(ifortVer_
039 FFLAGS+= -qopenmp
040 DEBUGFLAGS+= -qopenmp
041 else
042 FFLAGS+= -openmp -vec_report0
043 DEBUGFLAGS+= -openmp
044 endif

045
046 # This flag is passed to th
047 F90CRLINK = -cxxlib
048 MODOUT = -module \$(OUTPUT_DIR)
049 SMODOUT = -module \$(DLL_DIR)
050 ifneq (\$(FISHER),)
051 FFLAGS += -mkl
052 endif

053
054 else
055 gfortErr = \$(shell which gfort
056 ifeq "\$(gfortErr)" "0"
057 COMPILER = gfortran
058 #Gfortran compiler:
059 #The options here work in v4.6

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```
22 #if pre v4.3 add -D__GFORTRAN__
23 #With v4.6+ try -Ofast -march=native
24 #On my machine v4.5 is about 20% faster
25 #F90C = gfortran
26 #FFLAGS = -O3 -fopenmp -ffast-math
27
28
29 #Old Intel ifc, add -openmp for
30 #F90C = ifc
31 #FFLAGS = -O2 -Vaxlib -ip -W0 -x
32 #some systems can also add -x
33
34 #G95 compiler
35 #F90C = g95
36 #FFLAGS = -O2
37
38 #SGI, -mp toggles multi-process
39 #F90C = f90
40 #FFLAGS = -Ofast -mp
```

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```
060 F90C = gfortran
061 SFFLAGS = -shared -fPIC
062
063 FFLAGS = -O3 -ffast-math -fma
064 DEBUGFLAGS = -cpp -g -fbounds-check
065 MODOUT = -J$(OUTPUT_DIR)
066 SMODOUT = -J$(DLL_DIR)
067
068 ifeq ($(shell uname -s), Darwin)
069 NONNATIVE = 1
070 endif
071 ifndef NONNATIVE
072 #Note this seems to make code
073 FFLAGS+=-march=native
074 endif
075 endif
076 endif
077
078 IFLAG = -I
079
080 #G95 compiler
081 #F90C = g95
082 #FFLAGS = -O2
083
084 #SGI, -mp toggles multi-process
085 #F90C = f90
086 #FFLAGS = -Ofast -mp
```

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```
41
42 #Digital/Compaq fortran, -omp t
43 #F90C      = f90
44 #FFLAGS    = -omp -O4 -arch host
45
46 #Absoft ProFortran, single proc
47 #F90C      = f95
48 #FFLAGS    = -O2 -cpu:athlon -s -l
49
50 #NAGF95, single processor:
51 #F90C      = f95
52 #FFLAGS    = -DNAGF95 -O3
53
54 #PGF90
55 #F90C = pgf90
56 #FFLAGS = -O2 -DESCAPEBACKSLASH
57
58 #Sun V880
59 #F90C = mpf90
60 #FFLAGS = -O4 -openmp -ftrap=%
61
62 #Sun parallel enterprise:
63 #F90C      = f95
64 #FFLAGS    = -O2 -xarch=native64
65 #try removing -openmp if get bu
66
67 #IBM XL Fortran, multi-processo
68 #F90C      = xlf90_r
69 #FFLAGS    = -DESCAPEBACKSLASH -D
70
```

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```
087
088 #Digital/Compaq fortran, -omp
089 #F90C      = f90
090 #FFLAGS    = -omp -O4 -arch host
091
092 #Absoft ProFortran, single pro
093 #F90C      = f95
094 #FFLAGS    = -O2 -cpu:athlon -s -
095
096 #NAGF95, single processor:
097 #F90C      = f95
098 #FFLAGS    = -DNAGF95 -O3
099
100 #PGF90
101 #F90C = pgf90
102 #FFLAGS = -O2 -DESCAPEBACKSLAS
103
104 #Sun V880
105 #F90C = mpf90
106 #FFLAGS = -O4 -openmp -ftrap=
107
108 #Sun parallel enterprise:
109 #F90C      = f95
110 #FFLAGS    = -O2 -xarch=native64
111 #try removing -openmp if get b
112
113 #IBM XL Fortran, multi-process
114 #F90C      = xlf90_r
115 #FFLAGS    = -DESCAPEBACKSLASH -
116
```

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```
71 #Settings for building camb_fit
72 #Location of FITSIO and name of
73 FITSDIR      ?= /home/cpac/cpa
74 FITSLIB      = cfitsio
75 #Location of HEALPIX for buildi
76 HEALPIXDIR   ?= /home/cpac/cpa
77
78 ifneq ($(FISHER),)
79 FFLAGS += -DFISHER
80 EXTCAMBFILS = Matrix_utils.o
81 else
82 EXTCAMBFILS =
83 endif
84
85 include ./Makefile_main
86
```

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```
117 #Settings for building camb_fit
118 #Location of FITSIO and name of
119 FITSDIR      ?= /usr/local/li
120 FITSLIB      = cfitsio
121 #Location of HEALPIX for build
122 HEALPIXDIR   ?= /usr/local/he
123
124 ifneq ($(FISHER),)
125 FFLAGS += -DFISHER
126 EXTCAMBFILS = $(OUTPUT_DIR)/M
127 else
128 EXTCAMBFILS =
129 endif
130
131 DEBUGFLAGS ?= FFLAGS
132 Debug: FFLAGS=$(DEBUGFLAGS)
133
134 include ./Makefile_main
135
```