

1 4.1.2 Combined Directive

2 Synopsis

3 Multiple attributes can be specified by one combined declarative directive, which is analogous
4 to type declaration statements using the “:” punctuation.

5 Syntax

```
[F] !$xmp combined-directive      is combined-attribute [, combined-attribute ]... ::
                                     combined-decl [, combined-decl ]...
6 [C] #pragma xmp combined-directive is combined-attribute [, combined-attribute ]... ::
                                     combined-decl [, combined-decl ]...
```

7 *combined-attribute* is one of:

```
nodes
template
distribute ( dist-format [, dist-format ]... ) onto nodes-name
8 align ( align-source [, align-source ]... ) ■
                                     ■ with template-name ( align-subscript [, align-subscript ]... )
shadow ( shadow-width [, shadow-width ]... )
[F] dimension ( explicit-shape-spec [, explicit-shape-spec ]... )
```

9 and *combined-decl* is one of:

```
nodes-decl
10 template-decl
array-name
```

11 Description

12 A combined directive is interpreted as if an object corresponding to each *combined-decl* is de-
13 clared in a directive corresponding to each *combined-attribute*, where all restrictions of each
14 directive, in addition to the following ones, are applied.

15 Restrictions

- 16 • The same kind of *combined-attribute* must not appear more than once in a given *combined-*
17 *directive*.
- 18 • If the `nodes` attribute appears in a *combined-directive*, each *combined-decl* must be a
19 *nodes-decl*.
- 20 • If the `template` or `distribute` attribute appears in a *combined-directive*, each *combined-*
21 *decl* must be a *template-decl*.
- 22 • If the `align` or `shadow` attribute appears in a *combined-directive*, each *combined-decl* must
23 be an *array-name*.
- 24 • [F] If the `dimension` attribute appears in a *combined-directive*, any object to which it
25 applies must be declared using either the `template` or the `nodes` attribute.