

demod[id, (), (mod<sub>0</sub> ... (module id () (code ... (0 (expr ...) code ...) mod<sub>n</sub> ...))]

demod[id, (), ((module id ((require id<sub>r</sub> @ phase<sub>r</sub>) req<sub>m</sub> ...) (code<sub>m0</sub> ... (0 (expr<sub>m</sub> ...) code<sub>mn</sub> ...))  
(module id<sub>r</sub> (req<sub>r</sub> ...) (code<sub>r0</sub> ... (phase<sub>nr</sub> (expr<sub>r</sub> ...) code<sub>rn</sub> ...))  
mod<sub>n</sub> ...))]

where phase<sub>nr</sub> = (- phase<sub>r</sub>)

demod[id, (), ((module id ((require id<sub>r</sub> @ phase<sub>r</sub>) req<sub>m</sub> ...) (code<sub>m</sub> ...))  
(module id<sub>r</sub> (req<sub>r</sub> ...) (code<sub>r</sub> ...))  
mod<sub>n</sub> ...))]

demod[id, ((id<sub>c</sub> phase<sub>c</sub>) (id<sub>n</sub> phase<sub>n</sub>) ...),  
(module id (req<sub>m</sub> ...) (code<sub>m0</sub> ... (0 (expr<sub>m</sub> ...) code<sub>mn</sub> ...))  
(module id<sub>c</sub> ((require id<sub>r</sub> @ phase<sub>r</sub>) req<sub>c</sub> ...) (code<sub>c</sub> ...))  
(module id<sub>r</sub> (req<sub>r</sub> ...) (code<sub>r0</sub> ... (phase<sub>c</sub> (expr<sub>r</sub> ...) code<sub>rn</sub> ...))  
mod<sub>n</sub> ...))]

demod[id, ((id<sub>c</sub> phase<sub>c</sub>) (id<sub>n</sub> phase<sub>n</sub>) ...),  
(module id (req<sub>m</sub> ...) (code<sub>m</sub> ...))  
(module id<sub>c</sub> ((require id<sub>r</sub> @ phase<sub>r</sub>) req<sub>c</sub> ...) (code<sub>c</sub> ...))  
(module id<sub>r</sub> (req<sub>r</sub> ...) (code<sub>r</sub> ...))  
mod<sub>n</sub> ...)]

demod[id, ((id<sub>c</sub> phase<sub>c</sub>) (id<sub>n</sub> phase<sub>n</sub>) ...),  
(module id (req<sub>m</sub> ...) (code<sub>m</sub> ...))  
(module id<sub>c</sub> () (code<sub>c</sub> ...))  
mod<sub>n</sub> ...)]

demod[id, (), (mod<sub>0</sub> ... (module id (req ...) (code ...) mod<sub>n</sub> ...))]

demod[id, (), ((module id ((require id<sub>r</sub> @ phase<sub>r</sub>) req<sub>m</sub> ...) (code<sub>m</sub> ...)) mod<sub>i</sub> ... (module id<sub>r</sub> (req<sub>r</sub> ...) (code<sub>r</sub> ...) mod<sub>n</sub> ...))]

demod[id, ((id<sub>c</sub> phase<sub>c</sub>) (id<sub>n</sub> phase<sub>n</sub>) ...),  
(module id (req<sub>m</sub> ...) (code<sub>m</sub> ...))  
mod<sub>i</sub> ...  
(module id<sub>c</sub> (req<sub>c</sub> ...) (code<sub>c</sub> ...))  
mod<sub>n</sub> ...)]

demod[id, ((id<sub>c</sub> phase<sub>c</sub>) (id<sub>n</sub> phase<sub>n</sub>) ...),  
(module id (req<sub>m</sub> ...) (code<sub>m</sub> ...))  
(module id<sub>c</sub> ((require id<sub>r</sub> @ phase<sub>r</sub>) req<sub>c</sub> ...) (code<sub>c</sub> ...))  
mod<sub>i</sub> ...  
(module id<sub>r</sub> (req<sub>r</sub> ...) (code<sub>r</sub> ...))  
mod<sub>n</sub> ...)]

= ((module id () ((0 (expr ...) ...)))

= demod[id, ((id<sub>r</sub> (- phase<sub>r</sub>))),  
(module id (req<sub>m</sub> ...) (code<sub>m</sub> ...))  
(module id<sub>r</sub> (req<sub>r</sub> ...) (code<sub>r</sub> ...))  
mod<sub>n</sub> ...)]

= demod[id, ((id<sub>r</sub> (- phase<sub>r</sub>))),  
(module id (req<sub>m</sub> ...) (code<sub>m</sub> ...))  
(module id<sub>r</sub> (req<sub>r</sub> ...) (code<sub>r</sub> ...))  
mod<sub>n</sub> ...)]

= demod[id, ((id<sub>r</sub> (- phase<sub>c</sub> phase<sub>n</sub>))),  
(module id (req<sub>m</sub> ...) (code<sub>m</sub> ...))  
(module id<sub>c</sub> (req<sub>c</sub> ...) (code<sub>c</sub> ...))  
(module id<sub>r</sub> (req<sub>r</sub> ...) (code<sub>r</sub> ...))  
mod<sub>n</sub> ...)]

= demod[id, ((id<sub>r</sub> (- phase<sub>c</sub> phase<sub>n</sub>))),  
(module id (req<sub>m</sub> ...) (code<sub>m</sub> ...))  
(module id<sub>c</sub> (req<sub>c</sub> ...) (code<sub>c</sub> ...))  
(module id<sub>r</sub> (req<sub>r</sub> ...) (code<sub>r</sub> ...))  
mod<sub>n</sub> ...)]

= demod[id, ((id<sub>n</sub> phase<sub>n</sub>) ...),  
(module id (req<sub>m</sub> ...) (code<sub>m</sub> ...))  
(module id<sub>c</sub> () (code<sub>c</sub> ...))  
mod<sub>n</sub> ...)]

= demod[id, (), ((module id (req ...) (code ...) mod<sub>n</sub> ...))]

= demod[id, (), ((module id ((require id<sub>r</sub> @ phase<sub>r</sub>) req<sub>m</sub> ...) (code<sub>m</sub> ...)) mod<sub>i</sub> ... (module id<sub>r</sub> (req<sub>r</sub> ...) (code<sub>r</sub> ...) mod<sub>n</sub> ...))]

= demod[id, ((id<sub>c</sub> phase<sub>c</sub>) (id<sub>n</sub> phase<sub>n</sub>) ...),  
(module id (req<sub>m</sub> ...) (code<sub>m</sub> ...))  
(module id<sub>c</sub> (req<sub>c</sub> ...) (code<sub>c</sub> ...))  
mod<sub>i</sub> ...  
mod<sub>n</sub> ...)]

= demod[id, ((id<sub>c</sub> phase<sub>c</sub>) (id<sub>n</sub> phase<sub>n</sub>) ...),  
(module id (req<sub>m</sub> ...) (code<sub>m</sub> ...))  
(module id<sub>c</sub> ((require id<sub>r</sub> @ phase<sub>r</sub>) req<sub>c</sub> ...) (code<sub>c</sub> ...))  
(module id<sub>r</sub> (req<sub>r</sub> ...) (code<sub>r</sub> ...))  
mod<sub>i</sub> ...  
mod<sub>n</sub> ...)]