Princeton University COS 217: Introduction to Programming Systems The "const" Keyword with Pointers

Pointer to Constant

Constant Pointer

Constant Pointer to Constant

Disallowed Mismatch

```
const int i1 = 100; const int i2 = 200; int *pi = &i1; /* Error. Subversive. Subsequently changing *pi would change i1. */
```

Disallowed Mismatch in Function Calls

```
void f(int *pi)
{
    ...
}
...
const int i1 = 5;
const int *pi2 = &i1;
f(pi2);    /* Error. Subversive. If f() changes *pi, then *pi2 also would change. */
```

Allowed Mismatch

Allowed Mismatch in Function Calls

Copyright © 2009 by Robert M. Dondero, Jr.