

WG14/N435
X3J11/95-036

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Date: 1995-07-07
Document Number: ISO JTC1/SC22/WG14 N435, ANSI X3J11 95-036

Review of: "Information technology -- Computer Graphics --
Programmers Hierarchical Interactive Graphics (PHIGS) --
language bindings -- Part 4: C -- Amendment 2: To incorporate
PHIGS amendments"

Please respond to me via E-mail if you have any further
questions.

Thank you for asking us to review your document. The
following are suggestions from various technical experts in
ANSI X3J11.

Page 46. Several "#define"s define sequences that would
cause syntax errors if used in an expression. For example:

```
#define PE_LINETYPE_NOT_DEFINABLE (122??)
```

Is this an error or does "??" signify something?

Pages 92-93. The function prototypes:

```
pinq_linetype_def_fac  
pinq_marker_type_def_fac
```

have mismatched comment delimiters:

```
void pinq_linetype_def_fac(  
    Pint num_elems_appl_list;          /* num elements in      */  
                                       application list      */  
    Pint beg_ln_type_to_return;        /* ... */
```

and occasionally use ";" (incorrect) rather than ","
(correct) to separate the parameters of a function.

Page 120. The function:

```
pinq_composite_facs
```

takes 24 arguments (this is *not* an error). For your
information, Standard C specifies a limit of 31 arguments.
In other words, you have room for seven more parameters if
you are considering extending this function.

Page 138. The identifier

```
Ptextr_perspect_corrperspect_corr
```

exceeds 31 characters. Only the first 31 may be significant

on some C compilers. The current definition is unique in the first 31 characters, so this shouldn't be a problem.

Page 150-154. Several "#define"s do not include whitespace between the identifier and its replacement. The result is that the preprocessor believes a function-like macro is being defined rather than the intended object-like macro. This will produce an error when compiling this header.

Incorrect:

```
#define PD_TEXTR_COMPOS_IND_NOT_AVAIL(610)
```

Correct:

```
#define PD_TEXTR_COMPOS_IND_NOT_AVAIL (610)
```

For your information, several identifiers exceed 31 characters. Only the first 31 may be significant on some C compilers. The current definitions are unique in the first 31 characters, so this shouldn't be a problem.

Page 156. The identifiers

```
PVWACT_TRANSLATE_ALONG_U_VRC_AXIS_CLIP  
PVWACT_TRANSLATE_ALONG_U_VRC_AXIS_NOCLIP  
PVWACT_TRANSLATE_ALONG_V_VRC_AXIS_CLIP  
PVWACT_TRANSLATE_ALONG_V_VRC_AXIS_NOCLIP
```

are not unique in the first 31 characters. This will not work on some compilers. These identifiers should be renamed to have unique names in the first 31 characters.