

NEW FEATURES IN
RADIANCE 3.8

GREG WARD
ANYWHERE SOFTWARE

OVERVIEW OF FEATURES

- **FIELDCOMB** TO CONVERT VIDEO FIELDS
- **RAN2TIFF** TO AUTOMATE ANIMATION EXPOSURES
- **NEW COLOR SCALE FOR FALSECOLOR**
- **RTCONTRIB -V** OPTION FOR CONTRIBUTIONS
- **OPTICS2RAD** TO IMPORT OPTICS 5 GLAZINGS

FIELDCOMB SCRIPT

- SPLITS FULL-FRAME IMAGE RENDERINGS INTO ODD AND EVEN FIELDS
- TAKES A LIST OF ANIMATION FRAMES AND PRODUCES HALF AS MANY FIELD-BASED FRAMES
- OPTIONS FOR FIELD ORDERING

RAN2TIFF SCRIPT

- **RUNS PCOND AND RA_TIFF ON A SEQUENCE OF FRAMES**
- **EMPLOYS A “MOVING AVERAGE” OF LUMINANCE HISTOGRAMS TO MANAGE EXPOSURE CHANGES**
- **TRANSFERS PCOND AND RA_TIFF OPTIONS**
- **ADDITIONAL OPTIONS FOR TIME CONSTANT & OUTPUT DIRECTORY**

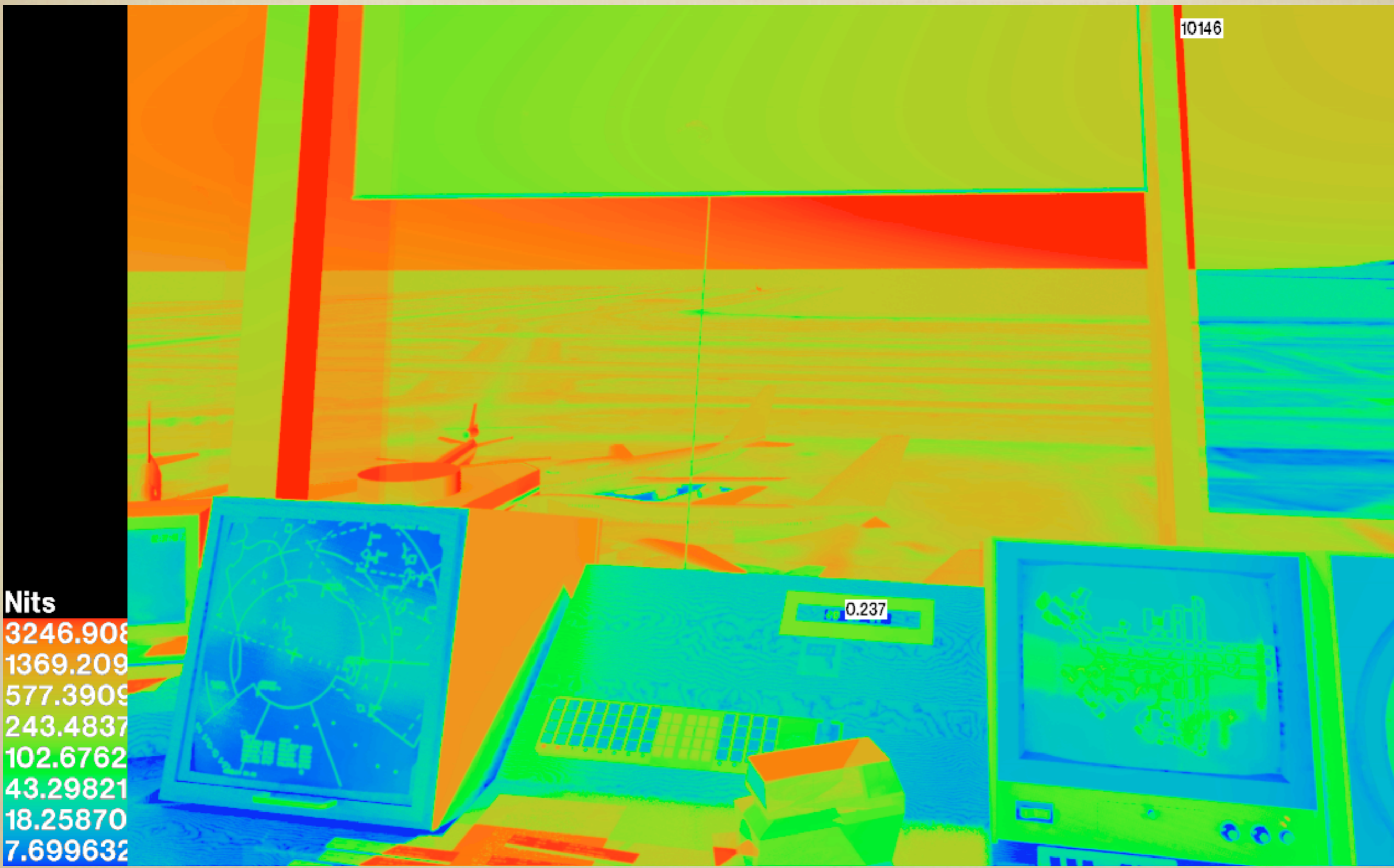
OLD FALSECOLOR SCALE

10146

Nits

3246.908
1369.209
577.3909
243.4837
102.6762
43.29821
18.25870
7.699632

0.237



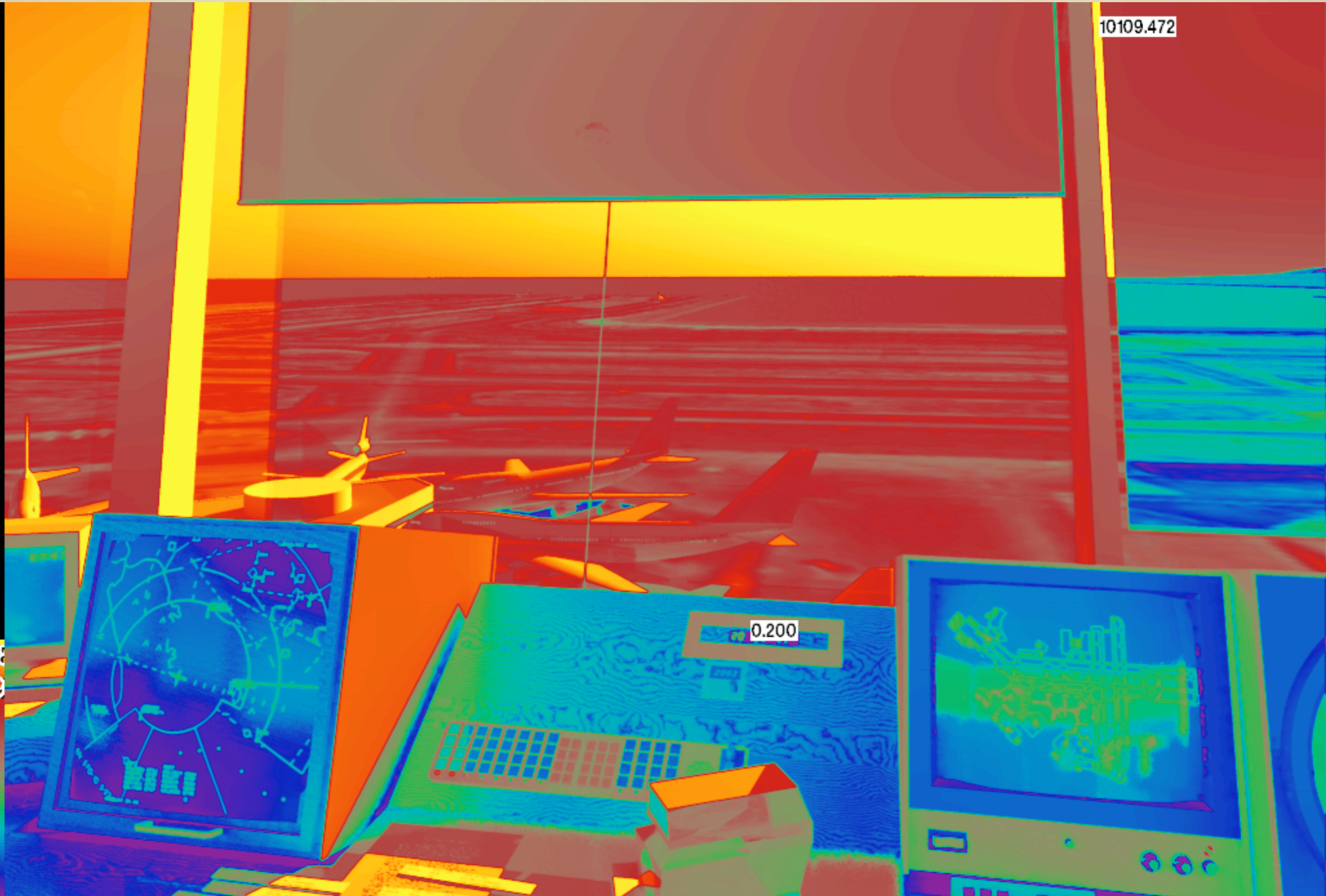
NEW SCALE

10109.472

Nits

3246.908
1369.209
577.390
243.483
102.676
43.298
18.258
7.699

0.200



RTCONTRIB -V OPTION

- **ORIGINALLY, RTCONTRIB WOULD ONLY REPORT CONTRIBUTION COEFFICIENTS**
- **DISREGARDS ACTUAL RAY CONTRIBUTION**
- **NEW -V OPTION REPORTS ACTUAL RAY CONTRIBUTION (IN PARTIAL RADIANCE UNITS)**
- **HANDY FOR LIGHT SOURCES BECAUSE IT INCLUDES OUTPUT DISTRIBUTIONS**

OPTICS2RAD SCRIPT

- TAKES CURRENT OPTICS 5 OUTPUT INTENDED FOR RADIANCE AND CORRECTS
- TAKES THREE OPTICS MATERIALS AND TURNS INTO ONE
- IF REFLECTANCE IS THE SAME FRONT AND BACK, GLASS MATERIAL IS USED
- OTHERWISE, BRTDFUNC IS USED

URNS:

```
void glass      GlzSys_glass
0
0
3      0.807      0.875      0.849
```

```
void BRTDfunc   GlzSys_front
10
      0.134      0.147      0.147
      0.740      0.803      0.779
      0 0 0
      .
0
9 0 0 0 0 0 0 0 0 0 0
```

```
void BRTDfunc   GlzSys_back
10
      0.134      0.147      0.147
      0.740      0.803      0.779
      0 0 0
      .
0
9 0 0 0 0 0 0 0 0 0 0
```

INTO:

```
void glass      GlzSys
0
0
3      0.807      0.875      0.849
```

URNS:

```
void glass      GlzSys1_glass
0
0
3 .235 .172 .016
```

```
void BRTDfunc  GlzSys1_front
10
    0.134      0.147      0.147
    .215       .158       .015
    0 0 0
    .
0
9 0 0 0 0 0 0 0 0 0
```

```
void BRTDfunc  GlzSys1_back
10
    0.051      0.072      0.083
    .215       .158       .015
    0 0 0
    .
0
9 0 0 0 0 0 0 0 0 0
```

INTO:

```
void BRTDfunc GlzSys1
10
    rR_bronze rG_bronze rB_bronze
    0.215*tR_bronze  0.158*tG_bronze  0.015*tB_bronze
    0 0 0
window.cal
0
15 0 0 0 0 0 0 0 0 0
    0.134      0.147      0.147
    0.051      0.072      0.083
```

**WINDOW.CAL CONTAINS
GLAZING MODEL FROM
WINDOW 3.0**

WHERE IS 3.8 RELEASE?

- **RELEASE IS BEING HELD UP BY WEBSITE MIGRATION**
- **ACTUALLY, THAT'S JUST A CONVENIENT EXCUSE**
- **RELEASE IS REALLY BEING HELD UP BY A BAD CASE OF PROJECT OVERCOMMITMENTITUS**
- **NOVEMBER IS MOST LIKELY RELEASE DATE**