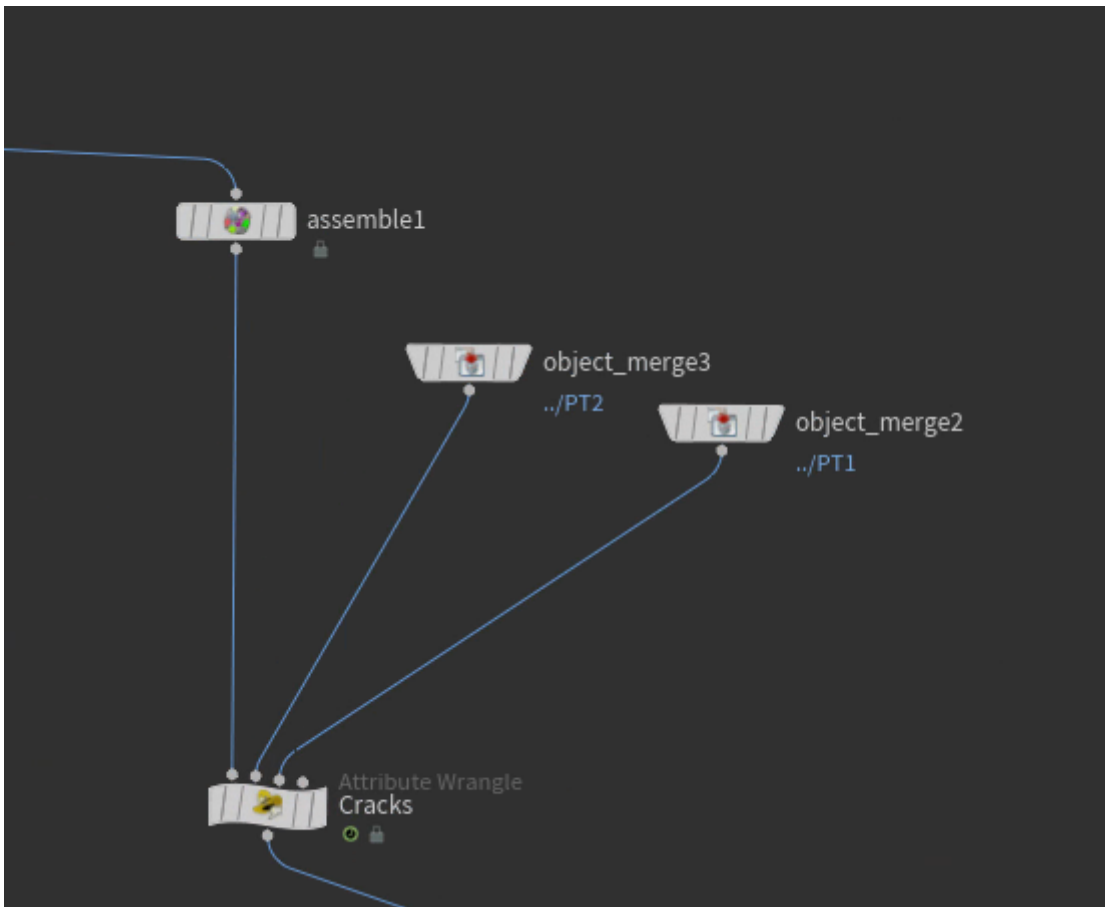


Transforms and Junk

1. transforms to attribute matrix:

```
p@orient = quaternion(3@transform);  
v@scale = cracktransform(0,0,2,set(0.0.0). 3@transform);
```

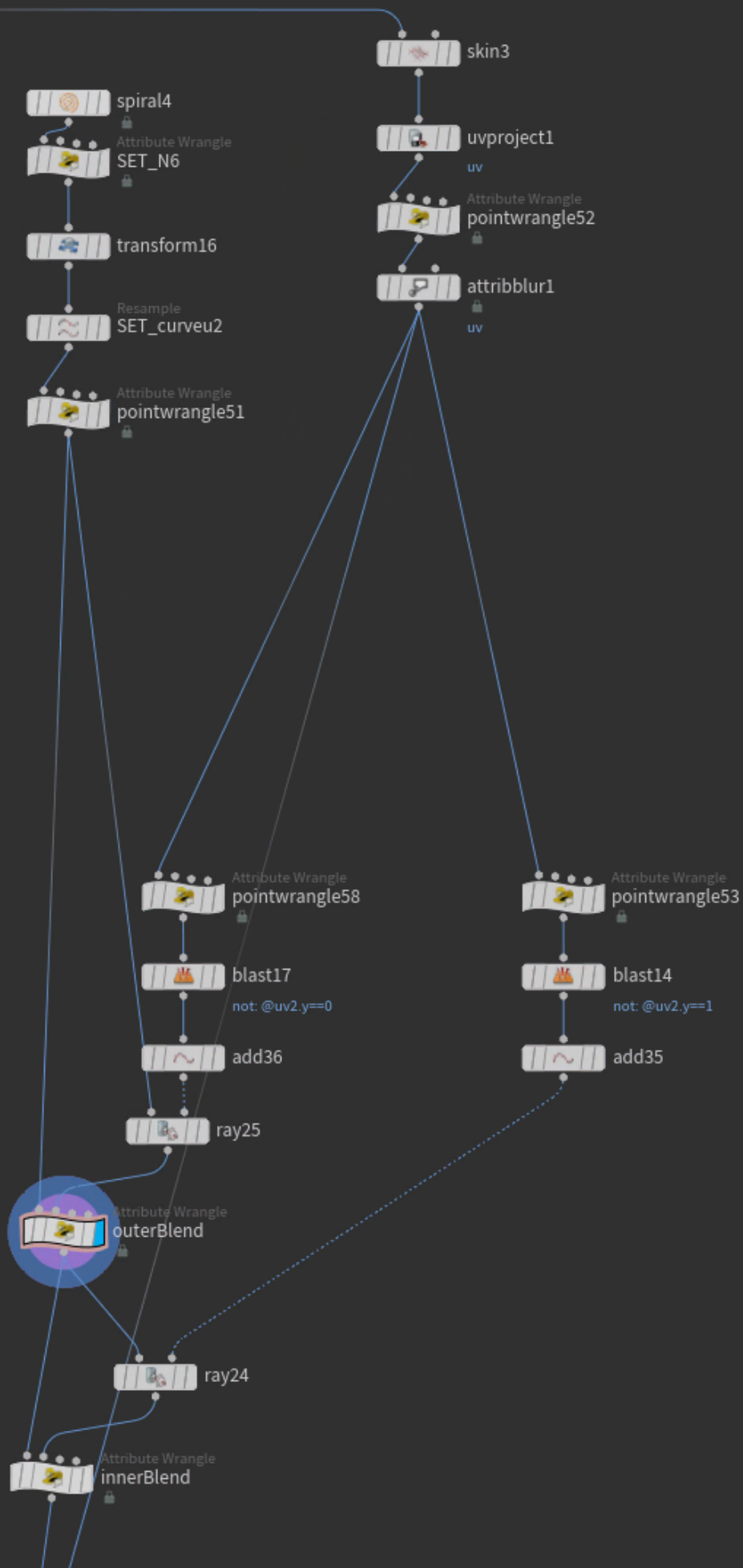
2. rotate packed fracture based on point + distance:



```
vector p1= set(@P.x, @P.y, @P.z);  
  
vector crack1 = point(1, "P", 0);  
vector crack2 = point(2, "P", 0);  
vector p2 = crack1-p1;  
vector p3 = crack2-p1;  
float n = fit ( length ( p2 ), 0, ch("maxdist"), ch('mult'), 0 );  
float n2 = fit ( length ( p3 ), 0, ch("maxdist2"), ch('mult2'), 0 );
```

```
vector4 q0 = quaternion ( 0 );  
vector4 q1 = sample_orientation_uniform ( rand ( @ptnum ) );  
vector4 q2 = slerp ( q0, q1, n+n2 );  
matrix3 xform = qconvert ( q2 );  
  
setprimintrinsic ( 0, "transform", @ptnum, xform );
```

3. Blending spiral (end beg):

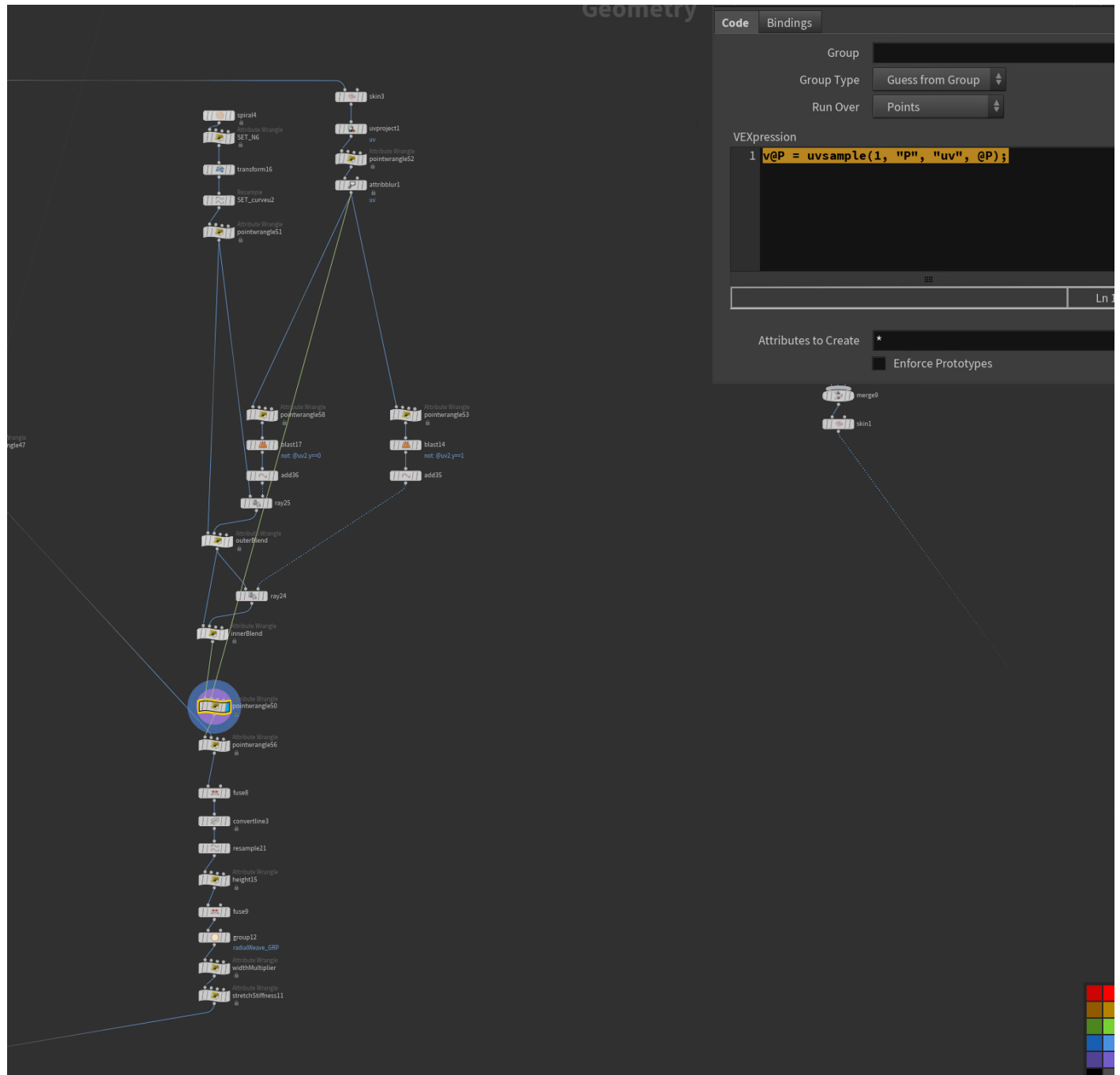


```
vector target = point(1, "P", @ptnum);
```

```
float blend = chramp("blendAlongSpiral", @curveu)*chf("multiplier");
```

```
@P = lerp(@P, target, blend);
```

4. Position copy via uv:



```
v@P = uvsample(1, "P", "uv", @P);
```

5. move near points together:

```
int near = nearpoint(1, @P);  
vector target = point(1, "P", near);  
@P = target;
```

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